aws

Welcome

AmplifyUIBuilder

API Version 2021-08-11

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AmplifyUIBuilder: Welcome

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Table of Contents

Welcome **1**
Actions **2**
CreateComponent 4
Request Syntax 4
URI Request Parameters 22
Request Body 23
Response Syntax 25
Response Elements 44
Errors 46
See Also 47
CreateForm 48
Request Syntax 48
URI Request Parameters 51
Request Body 51
Response Syntax 53
Response Elements 56
Errors 58
See Also 59
CreateTheme 60
Request Syntax 60
URI Request Parameters 60
Request Body 61
Response Syntax 62
Response Elements 63
Errors 64
See Also 65
DeleteComponent 66
Request Syntax 66
URI Request Parameters 66
Request Body 66
Response Syntax 66
Response Elements 66
Errors 67
See Also 67

DeleteForm ... 68
Request Syntax ... 68
URI Request Parameters ... 68
Request Body ... 68
Response Syntax ... 68
Response Elements ... 68
Errors ... 69
See Also ... 69
DeleteTheme ... 70
Request Syntax ... 70
URI Request Parameters ... 70
Request Body ... 70
Response Syntax ... 70
Response Elements ... 70
Errors ... 71
See Also ... 71
ExchangeCodeForToken ... 72
Request Syntax ... 72
URI Request Parameters ... 72
Request Body ... 72
Response Syntax ... 73
Response Elements ... 73
Errors ... 74
See Also ... 74
ExportComponents ... 75
Request Syntax ... 75
URI Request Parameters ... 75
Request Body ... 75
Response Syntax ... 75
Response Elements ... 94
Errors ... 94
See Also ... 95
ExportForms ... 96
Request Syntax ... 96
URI Request Parameters ... 96
Request Body ... 96

Response Syntax 96
Response Elements 99
Errors 100
See Also 100
ExportThemes 101
Request Syntax 101
URI Request Parameters 101
Request Body 101
Response Syntax 101
Response Elements 102
Errors 103
See Also 103
GetCodegenJob 104
Request Syntax 104
URI Request Parameters 104
Request Body 104
Response Syntax 104
Response Elements 107
Errors 109
See Also 109
GetComponent 111
Request Syntax 111
URI Request Parameters 111
Request Body 111
Response Syntax 111
Response Elements 130
Errors 133
See Also 133
GetForm 135
Request Syntax 135
URI Request Parameters 135
Request Body 135
Response Syntax 135
Response Elements 138
Errors 140
See Also 141

GetMetadata ... 142
Request Syntax ... 142
URI Request Parameters ... 142
Request Body ... 142
Response Syntax ... 142
Response Elements ... 143
Errors ... 143
See Also ... 143
GetTheme ... 145
Request Syntax ... 145
URI Request Parameters ... 145
Request Body ... 145
Response Syntax ... 145
Response Elements ... 146
Errors ... 148
See Also ... 148
ListCodegenJobs ... 150
Request Syntax ... 150
URI Request Parameters ... 150
Request Body ... 150
Response Syntax ... 151
Response Elements ... 151
Errors ... 151
See Also ... 152
ListComponents ... 153
Request Syntax ... 153
URI Request Parameters ... 153
Request Body ... 153
Response Syntax ... 153
Response Elements ... 154
Errors ... 154
See Also ... 155
ListForms ... 156
Request Syntax ... 156
URI Request Parameters ... 156
Request Body ... 156

Response Syntax ... 156
Response Elements ... 157
Errors ... 157
See Also ... 158
ListTagsForResource ... 159
Request Syntax ... 159
URI Request Parameters ... 159
Request Body ... 159
Response Syntax ... 159
Response Elements ... 159
Errors ... 160
See Also ... 161
ListThemes ... 162
Request Syntax ... 162
URI Request Parameters ... 162
Request Body ... 162
Response Syntax ... 162
Response Elements ... 163
Errors ... 163
See Also ... 164
PutMetadataFlag ... 165
Request Syntax ... 165
URI Request Parameters ... 165
Request Body ... 165
Response Syntax ... 166
Response Elements ... 166
Errors ... 166
See Also ... 166
RefreshToken ... 168
Request Syntax ... 168
URI Request Parameters ... 168
Request Body ... 168
Response Syntax ... 169
Response Elements ... 169
Errors ... 169
See Also ... 170

StartCodegenJob ... 171
Request Syntax ... 171
URI Request Parameters ... 172
Request Body ... 173
Response Syntax ... 174
Response Elements ... 176
Errors ... 178
See Also ... 179
TagResource ... 180
Request Syntax ... 180
URI Request Parameters ... 180
Request Body ... 180
Response Syntax ... 181
Response Elements ... 181
Errors ... 181
See Also ... 182
UntagResource ... 183
Request Syntax ... 183
URI Request Parameters ... 183
Request Body ... 183
Response Syntax ... 183
Response Elements ... 183
Errors ... 184
See Also ... 184
UpdateComponent ... 186
Request Syntax ... 186
URI Request Parameters ... 204
Request Body ... 205
Response Syntax ... 207
Response Elements ... 226
Errors ... 228
See Also ... 229
UpdateForm ... 230
Request Syntax ... 230
URI Request Parameters ... 232
Request Body ... 233

Response Syntax ... 235
Response Elements ... 238
Errors ... 240
See Also ... 240
UpdateTheme ... 242
Request Syntax ... 242
URI Request Parameters ... 242
Request Body ... 243
Response Syntax ... 244
Response Elements ... 245
Errors ... 246
See Also ... 247
Data Types ... 248
ActionParameters ... 251
Contents ... 251
See Also ... 252
ApiConfiguration ... 254
Contents ... 254
See Also ... 254
CodegenDependency ... 256
Contents ... 256
See Also ... 256
CodegenFeatureFlags ... 258
Contents ... 258
See Also ... 258
CodegenGenericDataEnum ... 259
Contents ... 259
See Also ... 259
CodegenGenericDataField ... 260
Contents ... 260
See Also ... 261
CodegenGenericDataModel ... 262
Contents ... 262
See Also ... 262
CodegenGenericDataNonModel ... 263
Contents ... 263

See Also 263
CodegenGenericDataRelationshipType 264
Contents 264
See Also 265
CodegenJob 267
Contents 267
See Also 269
CodegenJobAsset 271
Contents 271
See Also 271
CodegenJobGenericDataSchema 272
Contents 272
See Also 272
CodegenJobRenderConfig 274
Contents 274
See Also 274
CodegenJobSummary 275
Contents 275
See Also 276
Component 277
Contents 277
See Also 280
ComponentBindingPropertiesValue 281
Contents 281
See Also 281
ComponentBindingPropertiesValueProperties 283
Contents 283
See Also 284
ComponentChild 285
Contents 285
See Also 286
ComponentConditionProperty 287
Contents 287
See Also 288
ComponentDataConfiguration 289
Contents 289

See Also 289
ComponentEvent 291
Contents 291
See Also 291
ComponentProperty 293
Contents 293
See Also 295
ComponentPropertyBindingProperties 297
Contents 297
See Also 297
ComponentSummary 298
Contents 298
See Also 299
ComponentVariant 300
Contents 300
See Also 300
CreateComponentData 301
Contents 301
See Also 303
CreateFormData 304
Contents 304
See Also 306
CreateThemeData 307
Contents 307
See Also 308
DataStoreRenderConfig 309
Contents 309
See Also 309
ExchangeCodeForTokenRequestBody 310
Contents 310
See Also 310
FieldConfig 311
Contents 311
See Also 312
FieldInputConfig 313
Contents 313

See Also ... 315
FieldPosition ... 317
Contents ... 317
See Also ... 317
FieldValidationConfiguration ... 319
Contents ... 319
See Also ... 319
FileUploaderFieldConfig ... 321
Contents ... 321
See Also ... 322
Form ... 323
Contents ... 323
See Also ... 325
FormBindingElement ... 326
Contents ... 326
See Also ... 326
FormButton ... 327
Contents ... 327
See Also ... 327
FormCTA ... 329
Contents ... 329
See Also ... 329
FormDataTypeConfig ... 331
Contents ... 331
See Also ... 331
FormInputBindingPropertiesValue ... 332
Contents ... 332
See Also ... 332
FormInputBindingPropertiesValueProperties ... 333
Contents ... 333
See Also ... 333
FormInputValueProperty ... 334
Contents ... 334
See Also ... 334
FormInputValuePropertyBindingProperties ... 335
Contents ... 335

See Also 335
FormStyle 336
Contents 336
See Also 336
FormStyleConfig 338
Contents 338
See Also 338
FormSummary 339
Contents 339
See Also 340
GraphQLRenderConfig 341
Contents 341
See Also 342
MutationActionSetStateParameter 343
Contents 343
See Also 343
NoApiRenderConfig 344
Contents 344
See Also 344
Predicate 345
Contents 345
See Also 346
PutMetadataFlagBody 347
Contents 347
See Also 347
ReactStartCodegenJobData 348
Contents 348
See Also 349
RefreshTokenRequestBody 350
Contents 350
See Also 350
SectionalElement 351
Contents 351
See Also 352
SortProperty 353
Contents 353

See Also ... 353
StartCodegenJobData ... 354
Contents ... 354
See Also ... 355
Theme ... 356
Contents ... 356
See Also ... 357
ThemeSummary ... 359
Contents ... 359
See Also ... 359
ThemeValue ... 361
Contents ... 361
See Also ... 361
ThemeValues ... 362
Contents ... 362
See Also ... 362
UpdateComponentData ... 363
Contents ... 363
See Also ... 365
UpdateFormData ... 366
Contents ... 366
See Also ... 367
UpdateThemeData ... 369
Contents ... 369
See Also ... 369
ValueMapping ... 371
Contents ... 371
See Also ... 371
ValueMappings ... 372
Contents ... 372
See Also ... 372
Common Parameters ... 373
Common Errors ... 376

Welcome

Welcome to the AWS Amplify UI Builder API documentation. This reference provides descriptions of the actions and data types for the Amplify UI Builder API.

The Amplify UI Builder API provides a programmatic interface for creating and configuring user interface (UI) component libraries and themes for use in your Amplify applications. You can then connect these UI components to an application's backend AWS resources.

You can also use the Amplify Studio visual designer to create UI components and model data for an app. For more information, see Introduction in the *Amplify Docs*.

The Amplify Framework is a comprehensive set of SDKs, libraries, tools, and documentation for client app development. For more information, see the Amplify Framework. For more information about deploying an Amplify application to AWS, see the Amplify User Guide.

This document was last published on April 16, 2024.

Actions

The following actions are supported:

- CreateComponent
- CreateForm
- CreateTheme
- DeleteComponent
- DeleteForm
- DeleteTheme
- ExchangeCodeForToken
- ExportComponents
- ExportForms
- ExportThemes
- GetCodegenJob
- GetComponent
- GetForm
- GetMetadata
- GetTheme
- ListCodegenJobs
- ListComponents
- ListForms
- ListTagsForResource
- ListThemes
- PutMetadataFlag
- RefreshToken
- StartCodegenJob
- TagResource
- UntagResource
- UpdateComponent
- UpdateForm

- UpdateTheme

CreateComponent

Creates a new component for an Amplify app.

Request Syntax

```
POST /app/appId/environment/environmentName/components?clientToken=clientToken HTTP/1.1
Content-type: application/json

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```

```
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    }
},
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    }
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               }
            },
            "variantValues": {
               "string" : "string"
            }
         }
      ]
}
```

URI Request Parameters

The request uses the following URI parameters.

appId

The unique ID of the Amplify app to associate with the component.

Required: Yes

clientToken

The unique client token.

environmentName

The name of the backend environment that is a part of the Amplify app.

Required: Yes

Request Body

The request accepts the following data in JSON format.

bindingProperties

The data binding information for the component's properties.

Type: String to ComponentBindingPropertiesValue object map

Required: Yes

children

A list of child components that are instances of the main component.

Type: Array of ComponentChild objects

Required: No

collectionProperties

The data binding configuration for customizing a component's properties. Use this for a collection component.

Type: String to ComponentDataConfiguration object map

Required: No

componentType

The component type. This can be an Amplify custom UI component or another custom component.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

events

The event configuration for the component. Use for the workflow feature in Amplify Studio that allows you to bind events and actions to components.

Type: String to ComponentEvent object map

Required: No

name

The name of the component

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

overrides

Describes the component properties that can be overriden to customize an instance of the component.

Type: String to string to string map map

Required: Yes

properties

Describes the component's properties.

Type: String to ComponentProperty object map

Required: Yes

schemaVersion

The schema version of the component when it was imported.

Type: String

Required: No

sourceId

The unique ID of the component in its original source system, such as Figma.

Type: String

Required: No

tags

One or more key-value pairs to use when tagging the component data.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `(?!aws:)[a-zA-Z+-=._:/]+`

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Required: No

variants

A list of the unique variants of this component.

Type: Array of ComponentVariant objects

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "appId": "string",
   "bindingProperties": {
      "string" : {
         "bindingProperties": {
            "bucket": "string",
            "defaultValue": "string",
            "field": "string",
            "key": "string",
            "model": "string",
            "predicates": [
               {
                  "and": [
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                  "operand": "string",
                  "operandType": "string",
                  "operator": "string",
                  "or": [
                     "Predicate"
                  ]
               }
```

```
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            "slotName": "string",
            "userAttribute": "string"
         },
         "defaultValue": "string",
         "type": "string"
      }
   },
   "children": [
      {
         "children": [
            "ComponentChild"
         ],
         "componentType": "string",
         "events": {
            "string" : {
               "action": "string",
               "bindingEvent": "string",
               "parameters": {
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                        "field": "string",
                        "property": "string"
                     },
                     "bindings": {
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                           "element": "string",
                           "property": "string"
                        }
                     },
                     "collectionBindingProperties": {
                        "field": "string",
                        "property": "string"
                     },
                     "componentName": "string",
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                        "ComponentProperty"
                     ],
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                        "field": "string",
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                        "operandType": "string",
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```

```
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         "property": "string",
         "type": "string",
         "userAttribute": "string",
         "value": "string"
      },
      "fields": {
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               "property": "string"
            },
            "bindings": {
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```

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```

```
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                  }
               },
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            }
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```
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               }
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               "property": "string"
            },
            "bindings": {
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               }
```

```
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```

```
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                "property": "string"
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```

```
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         },
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         },
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            "property": "string"
         },
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         ],
         "condition": {
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            "operand": "string",
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            "property": "string",
            "then": "ComponentProperty"
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         "type": "string",
         "userAttribute": "string",
         "value": "string"
      },
      "id": {
         "bindingProperties": {
            "field": "string",
```

```
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         },
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               "property": "string"
            }
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            "property": "string"
         },
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            "ComponentProperty"
         ],
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            "operand": "string",
            "operandType": "string",
            "operator": "string",
            "property": "string",
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               "property": "string"
            },
```

```
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                  "property": "string"
               }
            },
            "collectionBindingProperties": {
               "field": "string",
               "property": "string"
            },
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            ],
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            "model": "string",
            "property": "string",
            "type": "string",
            "userAttribute": "string",
            "value": "string"
         }
      },
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            "property": "string"
         },
         "bindings": {
            "string" : {
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               "property": "string"
            }
```

```
            },
            "collectionBindingProperties": {
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            },
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            ],
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               "operandType": "string",
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            "model": "string",
            "property": "string",
            "type": "string",
            "userAttribute": "string",
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         },
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               "field": "string",
               "property": "string"
            },
            "bindings": {
               "string" : {
                  "element": "string",
                  "property": "string"
               }
            },
            "collectionBindingProperties": {
               "field": "string",
               "property": "string"
            },
            "componentName": "string",
```

```
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            "type": "string",
            "userAttribute": "string",
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         },
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            },
            "bindings": {
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                  "property": "string"
               }
            },
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               "property": "string"
            },
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```
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          }
       }
    }
 },
 "id": "string",
 "modifiedAt": "string",
 "name": "string",
 "overrides": {
    "string" : {
       "string" : "string"
    }
 },
 "properties": {
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          "property": "string"
       },
       "bindings": {
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             "property": "string"
          }
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          "property": "string"
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       "componentName": "string",
```

```
            "concat": [
               "ComponentProperty"
            ],
            "condition": {
               "else": "ComponentProperty",
               "field": "string",
               "operand": "string",
               "operandType": "string",
               "operator": "string",
               "property": "string",
               "then": "ComponentProperty"
            },
            "configured": boolean,
            "defaultValue": "string",
            "event": "string",
            "importedValue": "string",
            "model": "string",
            "property": "string",
            "type": "string",
            "userAttribute": "string",
            "value": "string"
         }
      },
      "schemaVersion": "string",
      "sourceId": "string",
      "tags": {
         "string" : "string"
      },
      "variants": [
         {
            "overrides": {
               "string" : {
                  "string" : "string"
               }
            },
            "variantValues": {
               "string" : "string"
            }
         }
      ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

appId

The unique ID of the Amplify app associated with the component.

Type: String

bindingProperties

The information to connect a component's properties to data at runtime. You can't specify `tags` as a valid property for `bindingProperties`.

Type: String to ComponentBindingPropertiesValue object map

children

A list of the component's `ComponentChild` instances.

Type: Array of ComponentChild objects

collectionProperties

The data binding configuration for the component's properties. Use this for a collection component. You can't specify `tags` as a valid property for `collectionProperties`.

Type: String to ComponentDataConfiguration object map

componentType

The type of the component. This can be an Amplify custom UI component or another custom component.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

createdAt

The time that the component was created.

Type: Timestamp

environmentName

The name of the backend environment that is a part of the Amplify app.

Type: String

events

Describes the events that can be raised on the component. Use for the workflow feature in Amplify Studio that allows you to bind events and actions to components.

Type: String to ComponentEvent object map

id

The unique ID of the component.

Type: String

modifiedAt

The time that the component was modified.

Type: Timestamp

name

The name of the component.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

overrides

Describes the component's properties that can be overriden in a customized instance of the component. You can't specify `tags` as a valid property for `overrides`.

Type: String to string to string map map

properties

Describes the component's properties. You can't specify `tags` as a valid property for `properties`.

Type: String to ComponentProperty object map

schemaVersion

The schema version of the component when it was imported.

Type: String

sourceId

The unique ID of the component in its original source system, such as Figma.

Type: String

tags

One or more key-value pairs to use when tagging the component.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `(?!aws:)[a-zA-Z+-=._:/]+`

Value Length Constraints: Minimum length of 1. Maximum length of 256.

variants

A list of the component's variants. A variant is a unique style configuration of a main component.

Type: Array of ComponentVariant objects

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServerException

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

ResourceConflictException

The resource specified in the request conflicts with an existing resource.

HTTP Status Code: 409

ServiceQuotaExceededException

You exceeded your service quota. Service quotas, also referred to as limits, are the maximum number of service resources or operations for your AWS account.

HTTP Status Code: 402

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateForm

Creates a new form for an Amplify app.

Request Syntax

```
POST /app/appId/environment/environmentName/forms?clientToken=clientToken HTTP/1.1
Content-type: application/json

{
   "cta": {
      "cancel": {
         "children": "string",
         "excluded": boolean,
         "position": { ... }
      },
      "clear": {
         "children": "string",
         "excluded": boolean,
         "position": { ... }
      },
      "position": "string",
      "submit": {
         "children": "string",
         "excluded": boolean,
         "position": { ... }
      }
   },
   "dataType": {
      "dataSourceType": "string",
      "dataTypeName": "string"
   },
   "fields": {
      "string" : {
         "excluded": boolean,
         "inputType": {
            "defaultChecked": boolean,
            "defaultCountryCode": "string",
            "defaultValue": "string",
            "descriptiveText": "string",
            "fileUploaderConfig": {
               "acceptedFileTypes": [ "string" ],
               "accessLevel": "string",
```

```
            "isResumable": boolean,
            "maxFileCount": number,
            "maxSize": number,
            "showThumbnails": boolean
         },
         "isArray": boolean,
         "maxValue": number,
         "minValue": number,
         "name": "string",
         "placeholder": "string",
         "readOnly": boolean,
         "required": boolean,
         "step": number,
         "type": "string",
         "value": "string",
         "valueMappings": {
            "bindingProperties": {
               "string" : {
                  "bindingProperties": {
                     "model": "string"
                  },
                  "type": "string"
               }
            },
            "values": [
               {
                  "displayValue": {
                     "bindingProperties": {
                        "field": "string",
                        "property": "string"
                     },
                     "concat": [
                        "FormInputValueProperty"
                     ],
                     "value": "string"
                  },
                  "value": {
                     "bindingProperties": {
                        "field": "string",
                        "property": "string"
                     },
                     "concat": [
                        "FormInputValueProperty"
                     ],
```

```
                        "value": "string"
                     }
                  }
               ]
            }
         },
         "label": "string",
         "position": { ... },
         "validations": [
            {
               "numValues": [ number ],
               "strValues": [ "string" ],
               "type": "string",
               "validationMessage": "string"
            }
         ]
      }
   },
   "formActionType": "string",
   "labelDecorator": "string",
   "name": "string",
   "schemaVersion": "string",
   "sectionalElements": {
      "string" : {
         "excluded": boolean,
         "level": number,
         "orientation": "string",
         "position": { ... },
         "text": "string",
         "type": "string"
      }
   },
   "style": {
      "horizontalGap": { ... },
      "outerPadding": { ... },
      "verticalGap": { ... }
   },
   "tags": {
      "string" : "string"
   }
}
```

URI Request Parameters

The request uses the following URI parameters.

appId

The unique ID of the Amplify app to associate with the form.

Required: Yes

clientToken

The unique client token.

environmentName

The name of the backend environment that is a part of the Amplify app.

Required: Yes

Request Body

The request accepts the following data in JSON format.

cta

The `FormCTA` object that stores the call to action configuration for the form.

Type: FormCTA object

Required: No

dataType

The type of data source to use to create the form.

Type: FormDataTypeConfig object

Required: Yes

fields

The configuration information for the form's fields.

Type: String to FieldConfig object map

Required: Yes

formActionType

Specifies whether to perform a create or update action on the form.

Type: String

Valid Values: `create | update`

Required: Yes

labelDecorator

Specifies an icon or decoration to display on the form.

Type: String

Valid Values: `required | optional | none`

Required: No

name

The name of the form.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

schemaVersion

The schema version of the form.

Type: String

Required: Yes

sectionalElements

The configuration information for the visual helper elements for the form. These elements are not associated with any data.

Type: String to SectionalElement object map

Required: Yes

style

The configuration for the form's style.

Type: FormStyle object

Required: Yes

tags

One or more key-value pairs to use when tagging the form data.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `(?!aws:)[a-zA-Z+-=._:/]+`

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "appId": "string",
   "cta": {
      "cancel": {
         "children": "string",
         "excluded": boolean,
         "position": { ... }
      },
      "clear": {
         "children": "string",
         "excluded": boolean,
         "position": { ... }
      },
      "position": "string",
      "submit": {
         "children": "string",
         "excluded": boolean,
```

```
        "position": { ... }
      }
   },
   "dataType": {
      "dataSourceType": "string",
      "dataTypeName": "string"
   },
   "environmentName": "string",
   "fields": {
      "string" : {
         "excluded": boolean,
         "inputType": {
            "defaultChecked": boolean,
            "defaultCountryCode": "string",
            "defaultValue": "string",
            "descriptiveText": "string",
            "fileUploaderConfig": {
               "acceptedFileTypes": [ "string" ],
               "accessLevel": "string",
               "isResumable": boolean,
               "maxFileCount": number,
               "maxSize": number,
               "showThumbnails": boolean
            },
            "isArray": boolean,
            "maxValue": number,
            "minValue": number,
            "name": "string",
            "placeholder": "string",
            "readOnly": boolean,
            "required": boolean,
            "step": number,
            "type": "string",
            "value": "string",
            "valueMappings": {
               "bindingProperties": {
                  "string" : {
                     "bindingProperties": {
                        "model": "string"
                     },
                     "type": "string"
                  }
               },
               "values": [
```

```
                {
                   "displayValue": {
                      "bindingProperties": {
                         "field": "string",
                         "property": "string"
                      },
                      "concat": [
                         "FormInputValueProperty"
                      ],
                      "value": "string"
                   },
                   "value": {
                      "bindingProperties": {
                         "field": "string",
                         "property": "string"
                      },
                      "concat": [
                         "FormInputValueProperty"
                      ],
                      "value": "string"
                   }
                }
             ]
          }
       },
       "label": "string",
       "position": { ... },
       "validations": [
          {
             "numValues": [ number ],
             "strValues": [ "string" ],
             "type": "string",
             "validationMessage": "string"
          }
       ]
    }
 },
 "formActionType": "string",
 "id": "string",
 "labelDecorator": "string",
 "name": "string",
 "schemaVersion": "string",
 "sectionalElements": {
    "string" : {
```

```
            "excluded": boolean,
            "level": number,
            "orientation": "string",
            "position": { ... },
            "text": "string",
            "type": "string"
         }
      },
      "style": {
         "horizontalGap": { ... },
         "outerPadding": { ... },
         "verticalGap": { ... }
      },
      "tags": {
         "string" : "string"
      }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

appId

The unique ID of the Amplify app associated with the form.

Type: String

cta

Stores the call to action configuration for the form.

Type: FormCTA object

dataType

The type of data source to use to create the form.

Type: FormDataTypeConfig object

environmentName

The name of the backend environment that is a part of the Amplify app.

Type: String

fields

Stores the information about the form's fields.

Type: String to FieldConfig object map

formActionType

The operation to perform on the specified form.

Type: String

Valid Values: `create | update`

id

The unique ID of the form.

Type: String

labelDecorator

Specifies an icon or decoration to display on the form.

Type: String

Valid Values: `required | optional | none`

name

The name of the form.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

schemaVersion

The schema version of the form when it was imported.

Type: String

sectionalElements

Stores the visual helper elements for the form that are not associated with any data.

Type: String to SectionalElement object map

style

Stores the configuration for the form's style.

Type: FormStyle object

tags

One or more key-value pairs to use when tagging the form.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `(?!aws:)[a-zA-Z+-=._:/]+`

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServerException

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

ResourceConflictException

The resource specified in the request conflicts with an existing resource.

HTTP Status Code: 409

ServiceQuotaExceededException

You exceeded your service quota. Service quotas, also referred to as limits, are the maximum number of service resources or operations for your AWS account.

HTTP Status Code: 402

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateTheme

Creates a theme to apply to the components in an Amplify app.

Request Syntax

```
POST /app/appId/environment/environmentName/themes?clientToken=clientToken HTTP/1.1
Content-type: application/json

{
   "name": "string",
   "overrides": [
      {
         "key": "string",
         "value": {
            "children": [
               "ThemeValues"
            ],
            "value": "string"
         }
      }
   ],
   "tags": {
      "string" : "string"
   },
   "values": [
      {
         "key": "string",
         "value": {
            "children": [
               "ThemeValues"
            ],
            "value": "string"
         }
      }
   ]
}
```

URI Request Parameters

The request uses the following URI parameters.

appId

The unique ID of the Amplify app associated with the theme.

Required: Yes

clientToken

The unique client token.

environmentName

The name of the backend environment that is a part of the Amplify app.

Required: Yes

Request Body

The request accepts the following data in JSON format.

name

The name of the theme.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

overrides

Describes the properties that can be overriden to customize an instance of the theme.

Type: Array of ThemeValues objects

Required: No

tags

One or more key-value pairs to use when tagging the theme data.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `(?!aws:)[a-zA-Z+-=._:/]+`

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Required: No

values

A list of key-value pairs that defines the properties of the theme.

Type: Array of ThemeValues objects

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "appId": "string",
   "createdAt": "string",
   "environmentName": "string",
   "id": "string",
   "modifiedAt": "string",
   "name": "string",
   "overrides": [
      {
         "key": "string",
         "value": {
            "children": [
               "ThemeValues"
            ],
            "value": "string"
         }
      }
   ],
   "tags": {
      "string" : "string"
   },
   "values": [
      {
         "key": "string",
```

```
         "value": {
            "children": [
               "ThemeValues"
            ],
            "value": "string"
         }
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

appId

The unique ID for the Amplify app associated with the theme.

Type: String

createdAt

The time that the theme was created.

Type: Timestamp

environmentName

The name of the backend environment that is a part of the Amplify app.

Type: String

id

The ID for the theme.

Type: String

modifiedAt

The time that the theme was modified.

Type: Timestamp

name

The name of the theme.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

overrides

Describes the properties that can be overriden to customize a theme.

Type: Array of ThemeValues objects

tags

One or more key-value pairs to use when tagging the theme.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `(?!aws:)[a-zA-Z+-=._:/]+`

Value Length Constraints: Minimum length of 1. Maximum length of 256.

values

A list of key-value pairs that defines the properties of the theme.

Type: Array of ThemeValues objects

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServerException

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

ResourceConflictException

The resource specified in the request conflicts with an existing resource.

HTTP Status Code: 409

ServiceQuotaExceededException

You exceeded your service quota. Service quotas, also referred to as limits, are the maximum number of service resources or operations for your AWS account.

HTTP Status Code: 402

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteComponent

Deletes a component from an Amplify app.

Request Syntax

```
DELETE /app/appId/environment/environmentName/components/id HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

appId

The unique ID of the Amplify app associated with the component to delete.

Required: Yes

environmentName

The name of the backend environment that is a part of the Amplify app.

Required: Yes

id

The unique ID of the component to delete.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServerException

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

ResourceNotFoundException

The requested resource does not exist, or access was denied.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteForm

Deletes a form from an Amplify app.

Request Syntax

```
DELETE /app/appId/environment/environmentName/forms/id HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

appId

The unique ID of the Amplify app associated with the form to delete.

Required: Yes

environmentName

The name of the backend environment that is a part of the Amplify app.

Required: Yes

id

The unique ID of the form to delete.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServerException

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

ResourceNotFoundException

The requested resource does not exist, or access was denied.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteTheme

Deletes a theme from an Amplify app.

Request Syntax

```
DELETE /app/appId/environment/environmentName/themes/id HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

appId

The unique ID of the Amplify app associated with the theme to delete.

Required: Yes

environmentName

The name of the backend environment that is a part of the Amplify app.

Required: Yes

id

The unique ID of the theme to delete.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServerException

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

ResourceNotFoundException

The requested resource does not exist, or access was denied.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ExchangeCodeForToken

> **Note**
>
> This is for internal use.

Amplify uses this action to exchange an access code for a token.

Request Syntax

```
POST /tokens/provider HTTP/1.1
Content-type: application/json

{
   "clientId": "string",
   "code": "string",
   "redirectUri": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

provider

The third-party provider for the token. The only valid value is `figma`.

Valid Values: `figma`

Required: Yes

Request Body

The request accepts the following data in JSON format.

clientId

The ID of the client to request the token from.

Type: String

Required: No

code

The access code to send in the request.

Type: String

Required: Yes

redirectUri

The location of the application that will receive the access code.

Type: String

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "accessToken": "string",
   "expiresIn": number,
   "refreshToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

accessToken

The access token.

Type: String

expiresIn

The date and time when the new access token expires.

Type: Integer

refreshToken

The token to use to refresh a previously issued access token that might have expired.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors.

InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ExportComponents

Exports component configurations to code that is ready to integrate into an Amplify app.

Request Syntax

```
GET /export/app/appId/environment/environmentName/components?nextToken=nextToken
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

appId

The unique ID of the Amplify app to export components to.

Required: Yes

environmentName

The name of the backend environment that is a part of the Amplify app.

Required: Yes

nextToken

The token to request the next page of results.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "entities": [
      {
         "appId": "string",
         "bindingProperties": {
```

```
            "string" : {
               "bindingProperties": {
                  "bucket": "string",
                  "defaultValue": "string",
                  "field": "string",
                  "key": "string",
                  "model": "string",
                  "predicates": [
                     {
                        "and": [
                           "Predicate"
                        ],
                        "field": "string",
                        "operand": "string",
                        "operandType": "string",
                        "operator": "string",
                        "or": [
                           "Predicate"
                        ]
                     }
                  ],
                  "slotName": "string",
                  "userAttribute": "string"
               },
               "defaultValue": "string",
               "type": "string"
            }
         },
         "children": [
            {
               "children": [
                  "ComponentChild"
               ],
               "componentType": "string",
               "events": {
                  "string" : {
                     "action": "string",
                     "bindingEvent": "string",
                     "parameters": {
                        "anchor": {
                           "bindingProperties": {
                              "field": "string",
                              "property": "string"
                           },
```

```
            "bindings": {
               "string" : {
                  "element": "string",
                  "property": "string"
               }
            },
            "collectionBindingProperties": {
               "field": "string",
               "property": "string"
            },
            "componentName": "string",
            "concat": [
               "ComponentProperty"
            ],
            "condition": {
               "else": "ComponentProperty",
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               "property": "string",
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            "userAttribute": "string",
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                  "property": "string"
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               "bindings": {
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                     "property": "string"
                  }
```

```
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            "importedValue": "string",
            "model": "string",
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            "type": "string",
            "userAttribute": "string",
            "value": "string"
         }
      },
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            "property": "string"
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               "property": "string"
            }
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            "property": "string"
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```

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            },
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```
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                  "model": "string",
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                     "property": "string",
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                        "bindings": {
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                              "property": "string"
                           }
                        },
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                           "property": "string"
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```

```
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                     "property": "string"
                  },
                  "bindings": {
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                        "element": "string",
                        "property": "string"
                     }
                  },
                  "collectionBindingProperties": {
                     "field": "string",
                     "property": "string"
                  },
                  "componentName": "string",
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                  ],
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                     "operand": "string",
                     "operandType": "string",
                     "operator": "string",
                     "property": "string",
                     "then": "ComponentProperty"
                  },
```

```
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            "property": "string",
            "type": "string",
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               "property": "string"
            },
            "bindings": {
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                  "property": "string"
               }
            },
            "collectionBindingProperties": {
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               "property": "string"
            },
            "componentName": "string",
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            ],
            "condition": {
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               "operand": "string",
               "operandType": "string",
               "operator": "string",
               "property": "string",
               "then": "ComponentProperty"
            },
            "configured": boolean,
            "defaultValue": "string",
            "event": "string",
            "importedValue": "string",
            "model": "string",
            "property": "string",
```

```
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                        "userAttribute": "string",
                        "value": "string"
                     },
                     "url": {
                        "bindingProperties": {
                           "field": "string",
                           "property": "string"
                        },
                        "bindings": {
                           "string" : {
                              "element": "string",
                              "property": "string"
                           }
                        },
                        "collectionBindingProperties": {
                           "field": "string",
                           "property": "string"
                        },
                        "componentName": "string",
                        "concat": [
                           "ComponentProperty"
                        ],
                        "condition": {
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                           "field": "string",
                           "operand": "string",
                           "operandType": "string",
                           "operator": "string",
                           "property": "string",
                           "then": "ComponentProperty"
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                        "event": "string",
                        "importedValue": "string",
                        "model": "string",
                        "property": "string",
                        "type": "string",
                        "userAttribute": "string",
                        "value": "string"
                     }
                  }
               }
```

```
            },
            "name": "string",
            "properties": {
               "string" : {
                  "bindingProperties": {
                     "field": "string",
                     "property": "string"
                  },
                  "bindings": {
                     "string" : {
                        "element": "string",
                        "property": "string"
                     }
                  },
                  "collectionBindingProperties": {
                     "field": "string",
                     "property": "string"
                  },
                  "componentName": "string",
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                     "ComponentProperty"
                  ],
                  "condition": {
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                     "field": "string",
                     "operand": "string",
                     "operandType": "string",
                     "operator": "string",
                     "property": "string",
                     "then": "ComponentProperty"
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                  "configured": boolean,
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                  "event": "string",
                  "importedValue": "string",
                  "model": "string",
                  "property": "string",
                  "type": "string",
                  "userAttribute": "string",
                  "value": "string"
               }
            },
            "sourceId": "string"
         }
```

```
        ],
        "collectionProperties": {
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              "model": "string",
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                 "and": [
                    "Predicate"
                 ],
                 "field": "string",
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                 "operandType": "string",
                 "operator": "string",
                 "or": [
                    "Predicate"
                 ]
              },
              "sort": [
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                    "field": "string"
                 }
              ]
           }
        },
        "componentType": "string",
        "createdAt": "string",
        "environmentName": "string",
        "events": {
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              "action": "string",
              "bindingEvent": "string",
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                       "property": "string"
                    },
                    "bindings": {
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                          "property": "string"
                       }
                    },
```

```
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               "property": "string"
            },
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            ],
            "condition": {
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               "operand": "string",
               "operandType": "string",
               "operator": "string",
               "property": "string",
               "then": "ComponentProperty"
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            "importedValue": "string",
            "model": "string",
            "property": "string",
            "type": "string",
            "userAttribute": "string",
            "value": "string"
         },
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                  "property": "string"
               },
               "bindings": {
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                     "property": "string"
                  }
               },
               "collectionBindingProperties": {
                  "field": "string",
                  "property": "string"
               },
               "componentName": "string",
```

```
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                   "ComponentProperty"
                ],
                "condition": {
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                   "field": "string",
                   "operand": "string",
                   "operandType": "string",
                   "operator": "string",
                   "property": "string",
                   "then": "ComponentProperty"
                },
                "configured": boolean,
                "defaultValue": "string",
                "event": "string",
                "importedValue": "string",
                "model": "string",
                "property": "string",
                "type": "string",
                "userAttribute": "string",
                "value": "string"
             }
          },
          "global": {
             "bindingProperties": {
                "field": "string",
                "property": "string"
             },
             "bindings": {
                "string" : {
                   "element": "string",
                   "property": "string"
                }
             },
             "collectionBindingProperties": {
                "field": "string",
                "property": "string"
             },
             "componentName": "string",
             "concat": [
                "ComponentProperty"
             ],
             "condition": {
                "else": "ComponentProperty",
```

```
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            "operandType": "string",
            "operator": "string",
            "property": "string",
            "then": "ComponentProperty"
         },
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         "event": "string",
         "importedValue": "string",
         "model": "string",
         "property": "string",
         "type": "string",
         "userAttribute": "string",
         "value": "string"
      },
      "id": {
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            "property": "string"
         },
         "bindings": {
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               "property": "string"
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         },
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            "property": "string"
         },
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         "concat": [
            "ComponentProperty"
         ],
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            "field": "string",
            "operand": "string",
            "operandType": "string",
            "operator": "string",
            "property": "string",
            "then": "ComponentProperty"
```

```
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            "model": "string",
            "property": "string",
            "type": "string",
            "userAttribute": "string",
            "value": "string"
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         "model": "string",
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            "property": "string",
            "set": {
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                  "property": "string"
               },
               "bindings": {
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                     "property": "string"
                  }
               },
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                  "property": "string"
               },
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               ],
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                  "operandType": "string",
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                  "property": "string",
                  "then": "ComponentProperty"
               },
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```

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            "model": "string",
            "property": "string",
            "type": "string",
            "userAttribute": "string",
            "value": "string"
         }
      },
      "target": {
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            "property": "string"
         },
         "bindings": {
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               "property": "string"
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            "field": "string",
            "property": "string"
         },
         "componentName": "string",
         "concat": [
            "ComponentProperty"
         ],
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            "operand": "string",
            "operandType": "string",
            "operator": "string",
            "property": "string",
            "then": "ComponentProperty"
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         "configured": boolean,
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         "event": "string",
         "importedValue": "string",
         "model": "string",
         "property": "string",
```

```
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            "value": "string"
         },
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               "property": "string"
            },
            "bindings": {
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                  "property": "string"
               }
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               "property": "string"
            },
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            ],
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               "operandType": "string",
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               "property": "string",
               "then": "ComponentProperty"
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            "model": "string",
            "property": "string",
            "type": "string",
            "userAttribute": "string",
            "value": "string"
         },
         "url": {
            "bindingProperties": {
```

```
                  "field": "string",
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               },
               "bindings": {
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                     "property": "string"
                  }
               },
               "collectionBindingProperties": {
                  "field": "string",
                  "property": "string"
               },
               "componentName": "string",
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               ],
               "condition": {
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                  "operand": "string",
                  "operandType": "string",
                  "operator": "string",
                  "property": "string",
                  "then": "ComponentProperty"
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               "event": "string",
               "importedValue": "string",
               "model": "string",
               "property": "string",
               "type": "string",
               "userAttribute": "string",
               "value": "string"
            }
         }
      }
   },
   "id": "string",
   "modifiedAt": "string",
   "name": "string",
   "overrides": {
      "string" : {
```

```
            "string" : "string"
         }
      },
      "properties": {
         "string" : {
            "bindingProperties": {
               "field": "string",
               "property": "string"
            },
            "bindings": {
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                  "element": "string",
                  "property": "string"
               }
            },
            "collectionBindingProperties": {
               "field": "string",
               "property": "string"
            },
            "componentName": "string",
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               "ComponentProperty"
            ],
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            "defaultValue": "string",
            "event": "string",
            "importedValue": "string",
            "model": "string",
            "property": "string",
            "type": "string",
            "userAttribute": "string",
            "value": "string"
         }
      },
      "schemaVersion": "string",
```

```
         "sourceId": "string",
         "tags": {
            "string" : "string"
         },
         "variants": [
            {
               "overrides": {
                  "string" : {
                     "string" : "string"
                  }
               },
               "variantValues": {
                  "string" : "string"
               }
            }
         ]
      }
   ],
   "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

entities

Represents the configuration of the exported components.

Type: Array of Component objects

nextToken

The pagination token that's included if more results are available.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServerException

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ExportForms

Exports form configurations to code that is ready to integrate into an Amplify app.

Request Syntax

```
GET /export/app/appId/environment/environmentName/forms?nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

appId

The unique ID of the Amplify app to export forms to.

Required: Yes

environmentName

The name of the backend environment that is a part of the Amplify app.

Required: Yes

nextToken

The token to request the next page of results.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "entities": [
      {
         "appId": "string",
         "cta": {
            "cancel": {
```

```
            "children": "string",
            "excluded": boolean,
            "position": { ... }
         },
         "clear": {
            "children": "string",
            "excluded": boolean,
            "position": { ... }
         },
         "position": "string",
         "submit": {
            "children": "string",
            "excluded": boolean,
            "position": { ... }
         }
      },
      "dataType": {
         "dataSourceType": "string",
         "dataTypeName": "string"
      },
      "environmentName": "string",
      "fields": {
         "string" : {
            "excluded": boolean,
            "inputType": {
               "defaultChecked": boolean,
               "defaultCountryCode": "string",
               "defaultValue": "string",
               "descriptiveText": "string",
               "fileUploaderConfig": {
                  "acceptedFileTypes": [ "string" ],
                  "accessLevel": "string",
                  "isResumable": boolean,
                  "maxFileCount": number,
                  "maxSize": number,
                  "showThumbnails": boolean
               },
               "isArray": boolean,
               "maxValue": number,
               "minValue": number,
               "name": "string",
               "placeholder": "string",
               "readOnly": boolean,
               "required": boolean,
```

```
            "step": number,
            "type": "string",
            "value": "string",
            "valueMappings": {
               "bindingProperties": {
                  "string" : {
                     "bindingProperties": {
                        "model": "string"
                     },
                     "type": "string"
                  }
               },
               "values": [
                  {
                     "displayValue": {
                        "bindingProperties": {
                           "field": "string",
                           "property": "string"
                        },
                        "concat": [
                           "FormInputValueProperty"
                        ],
                        "value": "string"
                     },
                     "value": {
                        "bindingProperties": {
                           "field": "string",
                           "property": "string"
                        },
                        "concat": [
                           "FormInputValueProperty"
                        ],
                        "value": "string"
                     }
                  }
               ]
            }
         },
         "label": "string",
         "position": { ... },
         "validations": [
            {
               "numValues": [ number ],
               "strValues": [ "string" ],
```

```
                    "type": "string",
                    "validationMessage": "string"
                 }
              ]
           }
        },
        "formActionType": "string",
        "id": "string",
        "labelDecorator": "string",
        "name": "string",
        "schemaVersion": "string",
        "sectionalElements": {
           "string" : {
              "excluded": boolean,
              "level": number,
              "orientation": "string",
              "position": { ... },
              "text": "string",
              "type": "string"
           }
        },
        "style": {
           "horizontalGap": { ... },
           "outerPadding": { ... },
           "verticalGap": { ... }
        },
        "tags": {
           "string" : "string"
        }
     }
  ],
  "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

entities

Represents the configuration of the exported forms.

Type: Array of Form objects

nextToken

The pagination token that's included if more results are available.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServerException

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ExportThemes

Exports theme configurations to code that is ready to integrate into an Amplify app.

Request Syntax

```
GET /export/app/appId/environment/environmentName/themes?nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

appId

The unique ID of the Amplify app to export the themes to.

Required: Yes

environmentName

The name of the backend environment that is part of the Amplify app.

Required: Yes

nextToken

The token to request the next page of results.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "entities": [
      {
         "appId": "string",
         "createdAt": "string",
```

```
         "environmentName": "string",
         "id": "string",
         "modifiedAt": "string",
         "name": "string",
         "overrides": [
            {
               "key": "string",
               "value": {
                  "children": [
                     "ThemeValues"
                  ],
                  "value": "string"
               }
            }
         ],
         "tags": {
            "string" : "string"
         },
         "values": [
            {
               "key": "string",
               "value": {
                  "children": [
                     "ThemeValues"
                  ],
                  "value": "string"
               }
            }
         ]
      }
   ],
   "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

entities

Represents the configuration of the exported themes.

Type: Array of Theme objects

nextToken

The pagination token that's included if more results are available.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServerException

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetCodegenJob

Returns an existing code generation job.

Request Syntax

```
GET /app/appId/environment/environmentName/codegen-jobs/id HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

appId

The unique ID of the Amplify app associated with the code generation job.

Length Constraints: Minimum length of 1. Maximum length of 20.

Pattern: `d[a-z0-9]+`

Required: Yes

environmentName

The name of the backend environment that is a part of the Amplify app associated with the code generation job.

Required: Yes

id

The unique ID of the code generation job.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
   "appId": "string",
   "asset": {
      "downloadUrl": "string"
   },
   "autoGenerateForms": boolean,
   "createdAt": "string",
   "dependencies": [
      {
         "isSemVer": boolean,
         "name": "string",
         "reason": "string",
         "supportedVersion": "string"
      }
   ],
   "environmentName": "string",
   "features": {
      "isNonModelSupported": boolean,
      "isRelationshipSupported": boolean
   },
   "genericDataSchema": {
      "dataSourceType": "string",
      "enums": {
         "string" : {
            "values": [ "string" ]
         }
      },
      "models": {
         "string" : {
            "fields": {
               "string" : {
                  "dataType": "string",
                  "dataTypeValue": "string",
                  "isArray": boolean,
                  "readOnly": boolean,
                  "relationship": {
                     "associatedFields": [ "string" ],
                     "belongsToFieldOnRelatedModel": "string",
                     "canUnlinkAssociatedModel": boolean,
                     "isHasManyIndex": boolean,
                     "relatedJoinFieldName": "string",
                     "relatedJoinTableName": "string",
                     "relatedModelFields": [ "string" ],
```

```
                    "relatedModelName": "string",
                    "type": "string"
                 },
                 "required": boolean
              }
           },
           "isJoinTable": boolean,
           "primaryKeys": [ "string" ]
        }
     },
     "nonModels": {
        "string" : {
           "fields": {
              "string" : {
                 "dataType": "string",
                 "dataTypeValue": "string",
                 "isArray": boolean,
                 "readOnly": boolean,
                 "relationship": {
                    "associatedFields": [ "string" ],
                    "belongsToFieldOnRelatedModel": "string",
                    "canUnlinkAssociatedModel": boolean,
                    "isHasManyIndex": boolean,
                    "relatedJoinFieldName": "string",
                    "relatedJoinTableName": "string",
                    "relatedModelFields": [ "string" ],
                    "relatedModelName": "string",
                    "type": "string"
                 },
                 "required": boolean
              }
           }
        }
     }
  },
  "id": "string",
  "modifiedAt": "string",
  "renderConfig": { ... },
  "status": "string",
  "statusMessage": "string",
  "tags": {
     "string" : "string"
  }
```

```
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

appId

The ID of the Amplify app associated with the code generation job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 20.

Pattern: `d[a-z0-9]+`

asset

The `CodegenJobAsset` to use for the code generation job.

Type: CodegenJobAsset object

autoGenerateForms

Specifies whether to autogenerate forms in the code generation job.

Type: Boolean

createdAt

The time that the code generation job was created.

Type: Timestamp

dependencies

Lists the dependency packages that may be required for the project code to run.

Type: Array of CodegenDependency objects

environmentName

The name of the backend environment associated with the code generation job.

Type: String

features

Describes the feature flags that you can specify for a code generation job.

Type: CodegenFeatureFlags object

genericDataSchema

Describes the data schema for a code generation job.

Type: CodegenJobGenericDataSchema object

id

The unique ID for the code generation job.

Type: String

modifiedAt

The time that the code generation job was modified.

Type: Timestamp

renderConfig

Describes the configuration information for rendering the UI component associated with the code generation job.

Type: CodegenJobRenderConfig object

Note: This object is a Union. Only one member of this object can be specified or returned.

status

The status of the code generation job.

Type: String

Valid Values: `in_progress | failed | succeeded`

statusMessage

The customized status message for the code generation job.

Type: String

tags

One or more key-value pairs to use when tagging the code generation job.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `(?!aws:)[a-zA-Z+-=._:/]+`

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServerException

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

ResourceNotFoundException

The requested resource does not exist, or access was denied.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetComponent

Returns an existing component for an Amplify app.

Request Syntax

```
GET /app/appId/environment/environmentName/components/id HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

appId

The unique ID of the Amplify app.

Required: Yes

environmentName

The name of the backend environment that is part of the Amplify app.

Required: Yes

id

The unique ID of the component.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "appId": "string",
   "bindingProperties": {
      "string" : {
```

```
         "bindingProperties": {
            "bucket": "string",
            "defaultValue": "string",
            "field": "string",
            "key": "string",
            "model": "string",
            "predicates": [
               {
                  "and": [
                     "Predicate"
                  ],
                  "field": "string",
                  "operand": "string",
                  "operandType": "string",
                  "operator": "string",
                  "or": [
                     "Predicate"
                  ]
               }
            ],
            "slotName": "string",
            "userAttribute": "string"
         },
         "defaultValue": "string",
         "type": "string"
      }
   },
   "children": [
      {
         "children": [
            "ComponentChild"
         ],
         "componentType": "string",
         "events": {
            "string" : {
               "action": "string",
               "bindingEvent": "string",
               "parameters": {
                  "anchor": {
                     "bindingProperties": {
                        "field": "string",
                        "property": "string"
                     },
                     "bindings": {
```

```
            "string" : {
               "element": "string",
               "property": "string"
            }
         },
         "collectionBindingProperties": {
            "field": "string",
            "property": "string"
         },
         "componentName": "string",
         "concat": [
            "ComponentProperty"
         ],
         "condition": {
            "else": "ComponentProperty",
            "field": "string",
            "operand": "string",
            "operandType": "string",
            "operator": "string",
            "property": "string",
            "then": "ComponentProperty"
         },
         "configured": boolean,
         "defaultValue": "string",
         "event": "string",
         "importedValue": "string",
         "model": "string",
         "property": "string",
         "type": "string",
         "userAttribute": "string",
         "value": "string"
      },
      "fields": {
         "string" : {
            "bindingProperties": {
               "field": "string",
               "property": "string"
            },
            "bindings": {
               "string" : {
                  "element": "string",
                  "property": "string"
               }
            },
```

```
            "collectionBindingProperties": {
               "field": "string",
               "property": "string"
            },
            "componentName": "string",
            "concat": [
               "ComponentProperty"
            ],
            "condition": {
               "else": "ComponentProperty",
               "field": "string",
               "operand": "string",
               "operandType": "string",
               "operator": "string",
               "property": "string",
               "then": "ComponentProperty"
            },
            "configured": boolean,
            "defaultValue": "string",
            "event": "string",
            "importedValue": "string",
            "model": "string",
            "property": "string",
            "type": "string",
            "userAttribute": "string",
            "value": "string"
         }
      },
      "global": {
         "bindingProperties": {
            "field": "string",
            "property": "string"
         },
         "bindings": {
            "string" : {
               "element": "string",
               "property": "string"
            }
         },
         "collectionBindingProperties": {
            "field": "string",
            "property": "string"
         },
         "componentName": "string",
```

```
            "concat": [
               "ComponentProperty"
            ],
            "condition": {
               "else": "ComponentProperty",
               "field": "string",
               "operand": "string",
               "operandType": "string",
               "operator": "string",
               "property": "string",
               "then": "ComponentProperty"
            },
            "configured": boolean,
            "defaultValue": "string",
            "event": "string",
            "importedValue": "string",
            "model": "string",
            "property": "string",
            "type": "string",
            "userAttribute": "string",
            "value": "string"
         },
         "id": {
            "bindingProperties": {
               "field": "string",
               "property": "string"
            },
            "bindings": {
               "string" : {
                  "element": "string",
                  "property": "string"
               }
            },
            "collectionBindingProperties": {
               "field": "string",
               "property": "string"
            },
            "componentName": "string",
            "concat": [
               "ComponentProperty"
            ],
            "condition": {
               "else": "ComponentProperty",
               "field": "string",
```

```
                        "operand": "string",
                        "operandType": "string",
                        "operator": "string",
                        "property": "string",
                        "then": "ComponentProperty"
                     },
                     "configured": boolean,
                     "defaultValue": "string",
                     "event": "string",
                     "importedValue": "string",
                     "model": "string",
                     "property": "string",
                     "type": "string",
                     "userAttribute": "string",
                     "value": "string"
                  },
                  "model": "string",
                  "state": {
                     "componentName": "string",
                     "property": "string",
                     "set": {
                        "bindingProperties": {
                           "field": "string",
                           "property": "string"
                        },
                        "bindings": {
                           "string" : {
                              "element": "string",
                              "property": "string"
                           }
                        },
                        "collectionBindingProperties": {
                           "field": "string",
                           "property": "string"
                        },
                        "componentName": "string",
                        "concat": [
                           "ComponentProperty"
                        ],
                        "condition": {
                           "else": "ComponentProperty",
                           "field": "string",
                           "operand": "string",
                           "operandType": "string",
```

```
                        "operator": "string",
                        "property": "string",
                        "then": "ComponentProperty"
                    },
                    "configured": boolean,
                    "defaultValue": "string",
                    "event": "string",
                    "importedValue": "string",
                    "model": "string",
                    "property": "string",
                    "type": "string",
                    "userAttribute": "string",
                    "value": "string"
                }
            },
            "target": {
                "bindingProperties": {
                    "field": "string",
                    "property": "string"
                },
                "bindings": {
                    "string" : {
                        "element": "string",
                        "property": "string"
                    }
                },
                "collectionBindingProperties": {
                    "field": "string",
                    "property": "string"
                },
                "componentName": "string",
                "concat": [
                    "ComponentProperty"
                ],
                "condition": {
                    "else": "ComponentProperty",
                    "field": "string",
                    "operand": "string",
                    "operandType": "string",
                    "operator": "string",
                    "property": "string",
                    "then": "ComponentProperty"
                },
                "configured": boolean,
```

```
            "defaultValue": "string",
            "event": "string",
            "importedValue": "string",
            "model": "string",
            "property": "string",
            "type": "string",
            "userAttribute": "string",
            "value": "string"
         },
         "type": {
            "bindingProperties": {
               "field": "string",
               "property": "string"
            },
            "bindings": {
               "string" : {
                  "element": "string",
                  "property": "string"
               }
            },
            "collectionBindingProperties": {
               "field": "string",
               "property": "string"
            },
            "componentName": "string",
            "concat": [
               "ComponentProperty"
            ],
            "condition": {
               "else": "ComponentProperty",
               "field": "string",
               "operand": "string",
               "operandType": "string",
               "operator": "string",
               "property": "string",
               "then": "ComponentProperty"
            },
            "configured": boolean,
            "defaultValue": "string",
            "event": "string",
            "importedValue": "string",
            "model": "string",
            "property": "string",
            "type": "string",
```

```
                    "userAttribute": "string",
                    "value": "string"
                 },
                 "url": {
                    "bindingProperties": {
                       "field": "string",
                       "property": "string"
                    },
                    "bindings": {
                       "string" : {
                          "element": "string",
                          "property": "string"
                       }
                    },
                    "collectionBindingProperties": {
                       "field": "string",
                       "property": "string"
                    },
                    "componentName": "string",
                    "concat": [
                       "ComponentProperty"
                    ],
                    "condition": {
                       "else": "ComponentProperty",
                       "field": "string",
                       "operand": "string",
                       "operandType": "string",
                       "operator": "string",
                       "property": "string",
                       "then": "ComponentProperty"
                    },
                    "configured": boolean,
                    "defaultValue": "string",
                    "event": "string",
                    "importedValue": "string",
                    "model": "string",
                    "property": "string",
                    "type": "string",
                    "userAttribute": "string",
                    "value": "string"
                 }
              }
           }
        },
```

```
        "name": "string",
        "properties": {
           "string" : {
              "bindingProperties": {
                 "field": "string",
                 "property": "string"
              },
              "bindings": {
                 "string" : {
                    "element": "string",
                    "property": "string"
                 }
              },
              "collectionBindingProperties": {
                 "field": "string",
                 "property": "string"
              },
              "componentName": "string",
              "concat": [
                 "ComponentProperty"
              ],
              "condition": {
                 "else": "ComponentProperty",
                 "field": "string",
                 "operand": "string",
                 "operandType": "string",
                 "operator": "string",
                 "property": "string",
                 "then": "ComponentProperty"
              },
              "configured": boolean,
              "defaultValue": "string",
              "event": "string",
              "importedValue": "string",
              "model": "string",
              "property": "string",
              "type": "string",
              "userAttribute": "string",
              "value": "string"
           }
        },
        "sourceId": "string"
     }
  ],
```

```
   "collectionProperties": {
      "string" : {
         "identifiers": [ "string" ],
         "model": "string",
         "predicate": {
            "and": [
               "Predicate"
            ],
            "field": "string",
            "operand": "string",
            "operandType": "string",
            "operator": "string",
            "or": [
               "Predicate"
            ]
         },
         "sort": [
            {
               "direction": "string",
               "field": "string"
            }
         ]
      }
   },
   "componentType": "string",
   "createdAt": "string",
   "environmentName": "string",
   "events": {
      "string" : {
         "action": "string",
         "bindingEvent": "string",
         "parameters": {
            "anchor": {
               "bindingProperties": {
                  "field": "string",
                  "property": "string"
               },
               "bindings": {
                  "string" : {
                     "element": "string",
                     "property": "string"
                  }
               },
               "collectionBindingProperties": {
```

```
            "field": "string",
            "property": "string"
         },
         "componentName": "string",
         "concat": [
            "ComponentProperty"
         ],
         "condition": {
            "else": "ComponentProperty",
            "field": "string",
            "operand": "string",
            "operandType": "string",
            "operator": "string",
            "property": "string",
            "then": "ComponentProperty"
         },
         "configured": boolean,
         "defaultValue": "string",
         "event": "string",
         "importedValue": "string",
         "model": "string",
         "property": "string",
         "type": "string",
         "userAttribute": "string",
         "value": "string"
      },
      "fields": {
         "string" : {
            "bindingProperties": {
               "field": "string",
               "property": "string"
            },
            "bindings": {
               "string" : {
                  "element": "string",
                  "property": "string"
               }
            },
            "collectionBindingProperties": {
               "field": "string",
               "property": "string"
            },
            "componentName": "string",
            "concat": [
```

```
                    "ComponentProperty"
                ],
                "condition": {
                    "else": "ComponentProperty",
                    "field": "string",
                    "operand": "string",
                    "operandType": "string",
                    "operator": "string",
                    "property": "string",
                    "then": "ComponentProperty"
                },
                "configured": boolean,
                "defaultValue": "string",
                "event": "string",
                "importedValue": "string",
                "model": "string",
                "property": "string",
                "type": "string",
                "userAttribute": "string",
                "value": "string"
            }
        },
        "global": {
            "bindingProperties": {
                "field": "string",
                "property": "string"
            },
            "bindings": {
                "string" : {
                    "element": "string",
                    "property": "string"
                }
            },
            "collectionBindingProperties": {
                "field": "string",
                "property": "string"
            },
            "componentName": "string",
            "concat": [
                "ComponentProperty"
            ],
            "condition": {
                "else": "ComponentProperty",
                "field": "string",
```

```
            "operand": "string",
            "operandType": "string",
            "operator": "string",
            "property": "string",
            "then": "ComponentProperty"
         },
         "configured": boolean,
         "defaultValue": "string",
         "event": "string",
         "importedValue": "string",
         "model": "string",
         "property": "string",
         "type": "string",
         "userAttribute": "string",
         "value": "string"
      },
      "id": {
         "bindingProperties": {
            "field": "string",
            "property": "string"
         },
         "bindings": {
            "string" : {
               "element": "string",
               "property": "string"
            }
         },
         "collectionBindingProperties": {
            "field": "string",
            "property": "string"
         },
         "componentName": "string",
         "concat": [
            "ComponentProperty"
         ],
         "condition": {
            "else": "ComponentProperty",
            "field": "string",
            "operand": "string",
            "operandType": "string",
            "operator": "string",
            "property": "string",
            "then": "ComponentProperty"
         },
```

```
            "configured": boolean,
            "defaultValue": "string",
            "event": "string",
            "importedValue": "string",
            "model": "string",
            "property": "string",
            "type": "string",
            "userAttribute": "string",
            "value": "string"
         },
         "model": "string",
         "state": {
            "componentName": "string",
            "property": "string",
            "set": {
               "bindingProperties": {
                  "field": "string",
                  "property": "string"
               },
               "bindings": {
                  "string" : {
                     "element": "string",
                     "property": "string"
                  }
               },
               "collectionBindingProperties": {
                  "field": "string",
                  "property": "string"
               },
               "componentName": "string",
               "concat": [
                  "ComponentProperty"
               ],
               "condition": {
                  "else": "ComponentProperty",
                  "field": "string",
                  "operand": "string",
                  "operandType": "string",
                  "operator": "string",
                  "property": "string",
                  "then": "ComponentProperty"
               },
               "configured": boolean,
               "defaultValue": "string",
```

```
            "event": "string",
            "importedValue": "string",
            "model": "string",
            "property": "string",
            "type": "string",
            "userAttribute": "string",
            "value": "string"
         }
      },
      "target": {
         "bindingProperties": {
            "field": "string",
            "property": "string"
         },
         "bindings": {
            "string" : {
               "element": "string",
               "property": "string"
            }
         },
         "collectionBindingProperties": {
            "field": "string",
            "property": "string"
         },
         "componentName": "string",
         "concat": [
            "ComponentProperty"
         ],
         "condition": {
            "else": "ComponentProperty",
            "field": "string",
            "operand": "string",
            "operandType": "string",
            "operator": "string",
            "property": "string",
            "then": "ComponentProperty"
         },
         "configured": boolean,
         "defaultValue": "string",
         "event": "string",
         "importedValue": "string",
         "model": "string",
         "property": "string",
         "type": "string",
```

```
            "userAttribute": "string",
            "value": "string"
         },
         "type": {
            "bindingProperties": {
               "field": "string",
               "property": "string"
            },
            "bindings": {
               "string" : {
                  "element": "string",
                  "property": "string"
               }
            },
            "collectionBindingProperties": {
               "field": "string",
               "property": "string"
            },
            "componentName": "string",
            "concat": [
               "ComponentProperty"
            ],
            "condition": {
               "else": "ComponentProperty",
               "field": "string",
               "operand": "string",
               "operandType": "string",
               "operator": "string",
               "property": "string",
               "then": "ComponentProperty"
            },
            "configured": boolean,
            "defaultValue": "string",
            "event": "string",
            "importedValue": "string",
            "model": "string",
            "property": "string",
            "type": "string",
            "userAttribute": "string",
            "value": "string"
         },
         "url": {
            "bindingProperties": {
               "field": "string",
```

```
                "property": "string"
            },
            "bindings": {
               "string" : {
                  "element": "string",
                  "property": "string"
               }
            },
            "collectionBindingProperties": {
               "field": "string",
               "property": "string"
            },
            "componentName": "string",
            "concat": [
               "ComponentProperty"
            ],
            "condition": {
               "else": "ComponentProperty",
               "field": "string",
               "operand": "string",
               "operandType": "string",
               "operator": "string",
               "property": "string",
               "then": "ComponentProperty"
            },
            "configured": boolean,
            "defaultValue": "string",
            "event": "string",
            "importedValue": "string",
            "model": "string",
            "property": "string",
            "type": "string",
            "userAttribute": "string",
            "value": "string"
         }
      }
   }
},
"id": "string",
"modifiedAt": "string",
"name": "string",
"overrides": {
   "string" : {
      "string" : "string"
```

```
      }
   },
   "properties": {
      "string" : {
         "bindingProperties": {
            "field": "string",
            "property": "string"
         },
         "bindings": {
            "string" : {
               "element": "string",
               "property": "string"
            }
         },
         "collectionBindingProperties": {
            "field": "string",
            "property": "string"
         },
         "componentName": "string",
         "concat": [
            "ComponentProperty"
         ],
         "condition": {
            "else": "ComponentProperty",
            "field": "string",
            "operand": "string",
            "operandType": "string",
            "operator": "string",
            "property": "string",
            "then": "ComponentProperty"
         },
         "configured": boolean,
         "defaultValue": "string",
         "event": "string",
         "importedValue": "string",
         "model": "string",
         "property": "string",
         "type": "string",
         "userAttribute": "string",
         "value": "string"
      }
   },
   "schemaVersion": "string",
   "sourceId": "string",
```

```
   "tags": {
      "string" : "string"
   },
   "variants": [
      {
         "overrides": {
            "string" : {
               "string" : "string"
            }
         },
         "variantValues": {
            "string" : "string"
         }
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

appId

The unique ID of the Amplify app associated with the component.

Type: String

bindingProperties

The information to connect a component's properties to data at runtime. You can't specify `tags` as a valid property for `bindingProperties`.

Type: String to ComponentBindingPropertiesValue object map

children

A list of the component's `ComponentChild` instances.

Type: Array of ComponentChild objects

collectionProperties

The data binding configuration for the component's properties. Use this for a collection component. You can't specify `tags` as a valid property for `collectionProperties`.

Type: String to ComponentDataConfiguration object map

componentType

The type of the component. This can be an Amplify custom UI component or another custom component.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

createdAt

The time that the component was created.

Type: Timestamp

environmentName

The name of the backend environment that is a part of the Amplify app.

Type: String

events

Describes the events that can be raised on the component. Use for the workflow feature in Amplify Studio that allows you to bind events and actions to components.

Type: String to ComponentEvent object map

id

The unique ID of the component.

Type: String

modifiedAt

The time that the component was modified.

Type: Timestamp

name

The name of the component.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

overrides

Describes the component's properties that can be overriden in a customized instance of the component. You can't specify `tags` as a valid property for `overrides`.

Type: String to string to string map map

properties

Describes the component's properties. You can't specify `tags` as a valid property for `properties`.

Type: String to ComponentProperty object map

schemaVersion

The schema version of the component when it was imported.

Type: String

sourceId

The unique ID of the component in its original source system, such as Figma.

Type: String

tags

One or more key-value pairs to use when tagging the component.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `(?!aws:)[a-zA-Z+-=._:/]+`

Value Length Constraints: Minimum length of 1. Maximum length of 256.

variants

A list of the component's variants. A variant is a unique style configuration of a main component.

Type: Array of ComponentVariant objects

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServerException

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

ResourceNotFoundException

The requested resource does not exist, or access was denied.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3

- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetForm

Returns an existing form for an Amplify app.

Request Syntax

```
GET /app/appId/environment/environmentName/forms/id HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

appId

The unique ID of the Amplify app.

Required: Yes

environmentName

The name of the backend environment that is part of the Amplify app.

Required: Yes

id

The unique ID of the form.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "appId": "string",
   "cta": {
      "cancel": {
```

```
            "children": "string",
            "excluded": boolean,
            "position": { ... }
         },
         "clear": {
            "children": "string",
            "excluded": boolean,
            "position": { ... }
         },
         "position": "string",
         "submit": {
            "children": "string",
            "excluded": boolean,
            "position": { ... }
         }
      },
      "dataType": {
         "dataSourceType": "string",
         "dataTypeName": "string"
      },
      "environmentName": "string",
      "fields": {
         "string" : {
            "excluded": boolean,
            "inputType": {
               "defaultChecked": boolean,
               "defaultCountryCode": "string",
               "defaultValue": "string",
               "descriptiveText": "string",
               "fileUploaderConfig": {
                  "acceptedFileTypes": [ "string" ],
                  "accessLevel": "string",
                  "isResumable": boolean,
                  "maxFileCount": number,
                  "maxSize": number,
                  "showThumbnails": boolean
               },
               "isArray": boolean,
               "maxValue": number,
               "minValue": number,
               "name": "string",
               "placeholder": "string",
               "readOnly": boolean,
               "required": boolean,
```

```
            "step": number,
            "type": "string",
            "value": "string",
            "valueMappings": {
               "bindingProperties": {
                  "string" : {
                     "bindingProperties": {
                        "model": "string"
                     },
                     "type": "string"
                  }
               },
               "values": [
                  {
                     "displayValue": {
                        "bindingProperties": {
                           "field": "string",
                           "property": "string"
                        },
                        "concat": [
                           "FormInputValueProperty"
                        ],
                        "value": "string"
                     },
                     "value": {
                        "bindingProperties": {
                           "field": "string",
                           "property": "string"
                        },
                        "concat": [
                           "FormInputValueProperty"
                        ],
                        "value": "string"
                     }
                  }
               ]
            }
         },
         "label": "string",
         "position": { ... },
         "validations": [
            {
               "numValues": [ number ],
               "strValues": [ "string" ],
```

```
                "type": "string",
                "validationMessage": "string"
            }
         ]
      }
   },
   "formActionType": "string",
   "id": "string",
   "labelDecorator": "string",
   "name": "string",
   "schemaVersion": "string",
   "sectionalElements": {
      "string" : {
         "excluded": boolean,
         "level": number,
         "orientation": "string",
         "position": { ... },
         "text": "string",
         "type": "string"
      }
   },
   "style": {
      "horizontalGap": { ... },
      "outerPadding": { ... },
      "verticalGap": { ... }
   },
   "tags": {
      "string" : "string"
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

appId

The unique ID of the Amplify app associated with the form.

Type: String

cta

Stores the call to action configuration for the form.

Type: FormCTA object

dataType

The type of data source to use to create the form.

Type: FormDataTypeConfig object

environmentName

The name of the backend environment that is a part of the Amplify app.

Type: String

fields

Stores the information about the form's fields.

Type: String to FieldConfig object map

formActionType

The operation to perform on the specified form.

Type: String

Valid Values: `create | update`

id

The unique ID of the form.

Type: String

labelDecorator

Specifies an icon or decoration to display on the form.

Type: String

Valid Values: `required | optional | none`

name

The name of the form.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

schemaVersion

The schema version of the form when it was imported.

Type: String

sectionalElements

Stores the visual helper elements for the form that are not associated with any data.

Type: String to SectionalElement object map

style

Stores the configuration for the form's style.

Type: FormStyle object

tags

One or more key-value pairs to use when tagging the form.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `(?!aws:)[a-zA-Z+-=._:/]+`

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServerException

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

ResourceNotFoundException

The requested resource does not exist, or access was denied.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetMetadata

Returns existing metadata for an Amplify app.

Request Syntax

```
GET /app/appId/environment/environmentName/metadata HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

appId

The unique ID of the Amplify app.

Required: Yes

environmentName

The name of the backend environment that is part of the Amplify app.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "features": {
      "string" : "string"
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

features

Represents the configuration settings for the features metadata.

Type: String to string map

Errors

For information about the errors that are common to all actions, see Common Errors.

InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

UnauthorizedException

You don't have permission to perform this operation.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3

- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetTheme

Returns an existing theme for an Amplify app.

Request Syntax

```
GET /app/appId/environment/environmentName/themes/id HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

appId

The unique ID of the Amplify app.

Required: Yes

environmentName

The name of the backend environment that is part of the Amplify app.

Required: Yes

id

The unique ID for the theme.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "appId": "string",
```

```
   "createdAt": "string",
   "environmentName": "string",
   "id": "string",
   "modifiedAt": "string",
   "name": "string",
   "overrides": [
      {
         "key": "string",
         "value": {
            "children": [
               "ThemeValues"
            ],
            "value": "string"
         }
      }
   ],
   "tags": {
      "string" : "string"
   },
   "values": [
      {
         "key": "string",
         "value": {
            "children": [
               "ThemeValues"
            ],
            "value": "string"
         }
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

appId

The unique ID for the Amplify app associated with the theme.

Type: String

createdAt

The time that the theme was created.

Type: Timestamp

environmentName

The name of the backend environment that is a part of the Amplify app.

Type: String

id

The ID for the theme.

Type: String

modifiedAt

The time that the theme was modified.

Type: Timestamp

name

The name of the theme.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

overrides

Describes the properties that can be overriden to customize a theme.

Type: Array of ThemeValues objects

tags

One or more key-value pairs to use when tagging the theme.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `(?!aws:)[a-zA-Z+-=._:/]+`

Value Length Constraints: Minimum length of 1. Maximum length of 256.

values

A list of key-value pairs that defines the properties of the theme.

Type: Array of ThemeValues objects

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServerException

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

ResourceNotFoundException

The requested resource does not exist, or access was denied.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3

- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListCodegenJobs

Retrieves a list of code generation jobs for a specified Amplify app and backend environment.

Request Syntax

```
GET /app/appId/environment/environmentName/codegen-jobs?
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

appId

The unique ID for the Amplify app.

Length Constraints: Minimum length of 1. Maximum length of 20.

Pattern: `d[a-z0-9]+`

Required: Yes

environmentName

The name of the backend environment that is a part of the Amplify app.

Required: Yes

maxResults

The maximum number of jobs to retrieve.

Valid Range: Minimum value of 1. Maximum value of 100.

nextToken

The token to request the next page of results.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "entities": [
      {
         "appId": "string",
         "createdAt": "string",
         "environmentName": "string",
         "id": "string",
         "modifiedAt": "string"
      }
   ],
   "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

entities

The list of code generation jobs for the Amplify app.

Type: Array of CodegenJobSummary objects

nextToken

The pagination token that's included if more results are available.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServerException

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListComponents

Retrieves a list of components for a specified Amplify app and backend environment.

Request Syntax

```
GET /app/appId/environment/environmentName/components?
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

appId

The unique ID for the Amplify app.

Required: Yes

environmentName

The name of the backend environment that is a part of the Amplify app.

Required: Yes

maxResults

The maximum number of components to retrieve.

Valid Range: Minimum value of 1. Maximum value of 100.

nextToken

The token to request the next page of results.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
   "entities": [
      {
         "appId": "string",
         "componentType": "string",
         "environmentName": "string",
         "id": "string",
         "name": "string"
      }
   ],
   "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

entities

The list of components for the Amplify app.

Type: Array of ComponentSummary objects

nextToken

The pagination token that's included if more results are available.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServerException

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListForms

Retrieves a list of forms for a specified Amplify app and backend environment.

Request Syntax

```
GET /app/appId/environment/environmentName/forms?
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

appId

The unique ID for the Amplify app.

Required: Yes

environmentName

The name of the backend environment that is a part of the Amplify app.

Required: Yes

maxResults

The maximum number of forms to retrieve.

Valid Range: Minimum value of 1. Maximum value of 100.

nextToken

The token to request the next page of results.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
   "entities": [
      {
         "appId": "string",
         "dataType": {
            "dataSourceType": "string",
            "dataTypeName": "string"
         },
         "environmentName": "string",
         "formActionType": "string",
         "id": "string",
         "name": "string"
      }
   ],
   "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

entities

The list of forms for the Amplify app.

Type: Array of FormSummary objects

nextToken

The pagination token that's included if more results are available.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServerException

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListTagsForResource

Returns a list of tags for a specified Amazon Resource Name (ARN).

Request Syntax

```
GET /tags/resourceArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

resourceArn

The Amazon Resource Name (ARN) to use to list tags.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "tags": {
      "string" : "string"
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

tags

A list of tag key value pairs for a specified Amazon Resource Name (ARN).

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `(?!aws:)[a-zA-Z+-=._:/]+`

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServerException

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

ResourceNotFoundException

The requested resource does not exist, or access was denied.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

UnauthorizedException

You don't have permission to perform this operation.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListThemes

Retrieves a list of themes for a specified Amplify app and backend environment.

Request Syntax

```
GET /app/appId/environment/environmentName/themes?
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

appId

The unique ID for the Amplify app.

Required: Yes

environmentName

The name of the backend environment that is a part of the Amplify app.

Required: Yes

maxResults

The maximum number of theme results to return in the response.

Valid Range: Minimum value of 1. Maximum value of 100.

nextToken

The token to request the next page of results.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
   "entities": [
      {
         "appId": "string",
         "environmentName": "string",
         "id": "string",
         "name": "string"
      }
   ],
   "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

entities

The list of themes for the Amplify app.

Type: Array of ThemeSummary objects

nextToken

The pagination token that's returned if more results are available.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServerException

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

PutMetadataFlag

Stores the metadata information about a feature on a form.

Request Syntax

```
PUT /app/appId/environment/environmentName/metadata/features/featureName HTTP/1.1
Content-type: application/json

{
   "newValue": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

appId

The unique ID for the Amplify app.

Required: Yes

environmentName

The name of the backend environment that is part of the Amplify app.

Required: Yes

featureName

The name of the feature associated with the metadata.

Required: Yes

Request Body

The request accepts the following data in JSON format.

newValue

The new information to store.

Type: String

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

UnauthorizedException

You don't have permission to perform this operation.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2

- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

RefreshToken

> **Note**
>
> This is for internal use.

Amplify uses this action to refresh a previously issued access token that might have expired.

Request Syntax

```
POST /tokens/provider/refresh HTTP/1.1
Content-type: application/json

{
   "clientId": "string",
   "token": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

provider

The third-party provider for the token. The only valid value is `figma`.

Valid Values: `figma`

Required: Yes

Request Body

The request accepts the following data in JSON format.

clientId

The ID of the client to request the token from.

Type: String

Required: No

token

The token to use to refresh a previously issued access token that might have expired.

Type: String

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "accessToken": "string",
   "expiresIn": number
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

accessToken

The access token.

Type: String

expiresIn

The date and time when the new access token expires.

Type: Integer

Errors

For information about the errors that are common to all actions, see Common Errors.

InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

StartCodegenJob

Starts a code generation job for a specified Amplify app and backend environment.

Request Syntax

```
POST /app/appId/environment/environmentName/codegen-jobs?clientToken=clientToken
 HTTP/1.1
Content-type: application/json

{
   "autoGenerateForms": boolean,
   "features": {
      "isNonModelSupported": boolean,
      "isRelationshipSupported": boolean
   },
   "genericDataSchema": {
      "dataSourceType": "string",
      "enums": {
         "string" : {
            "values": [ "string" ]
         }
      },
      "models": {
         "string" : {
            "fields": {
               "string" : {
                  "dataType": "string",
                  "dataTypeValue": "string",
                  "isArray": boolean,
                  "readOnly": boolean,
                  "relationship": {
                     "associatedFields": [ "string" ],
                     "belongsToFieldOnRelatedModel": "string",
                     "canUnlinkAssociatedModel": boolean,
                     "isHasManyIndex": boolean,
                     "relatedJoinFieldName": "string",
                     "relatedJoinTableName": "string",
                     "relatedModelFields": [ "string" ],
                     "relatedModelName": "string",
                     "type": "string"
                  },
                  "required": boolean
```

```
                }
            },
            "isJoinTable": boolean,
            "primaryKeys": [ "string" ]
         }
      },
      "nonModels": {
         "string" : {
            "fields": {
               "string" : {
                  "dataType": "string",
                  "dataTypeValue": "string",
                  "isArray": boolean,
                  "readOnly": boolean,
                  "relationship": {
                     "associatedFields": [ "string" ],
                     "belongsToFieldOnRelatedModel": "string",
                     "canUnlinkAssociatedModel": boolean,
                     "isHasManyIndex": boolean,
                     "relatedJoinFieldName": "string",
                     "relatedJoinTableName": "string",
                     "relatedModelFields": [ "string" ],
                     "relatedModelName": "string",
                     "type": "string"
                  },
                  "required": boolean
               }
            }
         }
      }
   },
   "renderConfig": { ... },
   "tags": {
      "string" : "string"
   }
}
```

URI Request Parameters

The request uses the following URI parameters.

appId

The unique ID for the Amplify app.

Length Constraints: Minimum length of 1. Maximum length of 20.

Pattern: `d[a-z0-9]+`

Required: Yes

clientToken

The idempotency token used to ensure that the code generation job request completes only once.

environmentName

The name of the backend environment that is a part of the Amplify app.

Required: Yes

Request Body

The request accepts the following data in JSON format.

autoGenerateForms

Specifies whether to autogenerate forms in the code generation job.

Type: Boolean

Required: No

features

The feature flags for a code generation job.

Type: CodegenFeatureFlags object

Required: No

genericDataSchema

The data schema to use for a code generation job.

Type: CodegenJobGenericDataSchema object

Required: No

renderConfig

The code generation configuration for the codegen job.

Type: CodegenJobRenderConfig object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

tags

One or more key-value pairs to use when tagging the code generation job data.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `(?!aws:)[a-zA-Z+-=._:/]+`

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "appId": "string",
   "asset": {
      "downloadUrl": "string"
   },
   "autoGenerateForms": boolean,
   "createdAt": "string",
   "dependencies": [
      {
         "isSemVer": boolean,
         "name": "string",
         "reason": "string",
         "supportedVersion": "string"
      }
```

```
    ],
    "environmentName": "string",
    "features": {
       "isNonModelSupported": boolean,
       "isRelationshipSupported": boolean
    },
    "genericDataSchema": {
       "dataSourceType": "string",
       "enums": {
          "string" : {
             "values": [ "string" ]
          }
       },
       "models": {
          "string" : {
             "fields": {
                "string" : {
                   "dataType": "string",
                   "dataTypeValue": "string",
                   "isArray": boolean,
                   "readOnly": boolean,
                   "relationship": {
                      "associatedFields": [ "string" ],
                      "belongsToFieldOnRelatedModel": "string",
                      "canUnlinkAssociatedModel": boolean,
                      "isHasManyIndex": boolean,
                      "relatedJoinFieldName": "string",
                      "relatedJoinTableName": "string",
                      "relatedModelFields": [ "string" ],
                      "relatedModelName": "string",
                      "type": "string"
                   },
                   "required": boolean
                }
             },
             "isJoinTable": boolean,
             "primaryKeys": [ "string" ]
          }
       },
       "nonModels": {
          "string" : {
             "fields": {
                "string" : {
                   "dataType": "string",
```

```
                    "dataTypeValue": "string",
                    "isArray": boolean,
                    "readOnly": boolean,
                    "relationship": {
                       "associatedFields": [ "string" ],
                       "belongsToFieldOnRelatedModel": "string",
                       "canUnlinkAssociatedModel": boolean,
                       "isHasManyIndex": boolean,
                       "relatedJoinFieldName": "string",
                       "relatedJoinTableName": "string",
                       "relatedModelFields": [ "string" ],
                       "relatedModelName": "string",
                       "type": "string"
                    },
                    "required": boolean
                 }
              }
           }
        }
     },
     "id": "string",
     "modifiedAt": "string",
     "renderConfig": { ... },
     "status": "string",
     "statusMessage": "string",
     "tags": {
        "string" : "string"
     }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

appId

The ID of the Amplify app associated with the code generation job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 20.

Pattern: `d[a-z0-9]+`

asset

The `CodegenJobAsset` to use for the code generation job.

Type: CodegenJobAsset object

autoGenerateForms

Specifies whether to autogenerate forms in the code generation job.

Type: Boolean

createdAt

The time that the code generation job was created.

Type: Timestamp

dependencies

Lists the dependency packages that may be required for the project code to run.

Type: Array of CodegenDependency objects

environmentName

The name of the backend environment associated with the code generation job.

Type: String

features

Describes the feature flags that you can specify for a code generation job.

Type: CodegenFeatureFlags object

genericDataSchema

Describes the data schema for a code generation job.

Type: CodegenJobGenericDataSchema object

id

The unique ID for the code generation job.

Type: String

modifiedAt

The time that the code generation job was modified.

Type: Timestamp

renderConfig

Describes the configuration information for rendering the UI component associated with the code generation job.

Type: CodegenJobRenderConfig object

Note: This object is a Union. Only one member of this object can be specified or returned.

status

The status of the code generation job.

Type: String

Valid Values: `in_progress | failed | succeeded`

statusMessage

The customized status message for the code generation job.

Type: String

tags

One or more key-value pairs to use when tagging the code generation job.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `(?!aws:)[a-zA-Z+-=._:/]+`

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServerException

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

TagResource

Tags the resource with a tag key and value.

Request Syntax

```
POST /tags/resourceArn HTTP/1.1
Content-type: application/json

{
   "tags": {
      "string" : "string"
   }
}
```

URI Request Parameters

The request uses the following URI parameters.

resourceArn

The Amazon Resource Name (ARN) to use to tag a resource.

Required: Yes

Request Body

The request accepts the following data in JSON format.

tags

A list of tag key value pairs for a specified Amazon Resource Name (ARN).

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `(?!aws:)[a-zA-Z+-=._:/]+`

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServerException

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

ResourceNotFoundException

The requested resource does not exist, or access was denied.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

UnauthorizedException

You don't have permission to perform this operation.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UntagResource

Untags a resource with a specified Amazon Resource Name (ARN).

Request Syntax

```
DELETE /tags/resourceArn?tagKeys=tagKeys HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

resourceArn

The Amazon Resource Name (ARN) to use to untag a resource.

Required: Yes

tagKeys

The tag keys to use to untag a resource.

Array Members: Minimum number of 0 items. Maximum number of 200 items.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `(?!aws:)[a-zA-Z+-=._:/]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServerException

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

ResourceNotFoundException

The requested resource does not exist, or access was denied.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

UnauthorizedException

You don't have permission to perform this operation.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go

- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateComponent

Updates an existing component.

Request Syntax

```
PATCH /app/appId/environment/environmentName/components/id?clientToken=clientToken
 HTTP/1.1
Content-type: application/json

{
   "bindingProperties": {
      "string" : {
         "bindingProperties": {
            "bucket": "string",
            "defaultValue": "string",
            "field": "string",
            "key": "string",
            "model": "string",
            "predicates": [
               {
                  "and": [
                     "Predicate"
                  ],
                  "field": "string",
                  "operand": "string",
                  "operandType": "string",
                  "operator": "string",
                  "or": [
                     "Predicate"
                  ]
               }
            ],
            "slotName": "string",
            "userAttribute": "string"
         },
         "defaultValue": "string",
         "type": "string"
      }
   },
   "children": [
      {
         "children": [
```

```
            "ComponentChild"
         ],
         "componentType": "string",
         "events": {
            "string" : {
               "action": "string",
               "bindingEvent": "string",
               "parameters": {
                  "anchor": {
                     "bindingProperties": {
                        "field": "string",
                        "property": "string"
                     },
                     "bindings": {
                        "string" : {
                           "element": "string",
                           "property": "string"
                        }
                     },
                     "collectionBindingProperties": {
                        "field": "string",
                        "property": "string"
                     },
                     "componentName": "string",
                     "concat": [
                        "ComponentProperty"
                     ],
                     "condition": {
                        "else": "ComponentProperty",
                        "field": "string",
                        "operand": "string",
                        "operandType": "string",
                        "operator": "string",
                        "property": "string",
                        "then": "ComponentProperty"
                     },
                     "configured": boolean,
                     "defaultValue": "string",
                     "event": "string",
                     "importedValue": "string",
                     "model": "string",
                     "property": "string",
                     "type": "string",
                     "userAttribute": "string",
```

```
            "value": "string"
         },
         "fields": {
            "string" : {
               "bindingProperties": {
                  "field": "string",
                  "property": "string"
               },
               "bindings": {
                  "string" : {
                     "element": "string",
                     "property": "string"
                  }
               },
               "collectionBindingProperties": {
                  "field": "string",
                  "property": "string"
               },
               "componentName": "string",
               "concat": [
                  "ComponentProperty"
               ],
               "condition": {
                  "else": "ComponentProperty",
                  "field": "string",
                  "operand": "string",
                  "operandType": "string",
                  "operator": "string",
                  "property": "string",
                  "then": "ComponentProperty"
               },
               "configured": boolean,
               "defaultValue": "string",
               "event": "string",
               "importedValue": "string",
               "model": "string",
               "property": "string",
               "type": "string",
               "userAttribute": "string",
               "value": "string"
            }
         },
         "global": {
            "bindingProperties": {
```

```
            "field": "string",
            "property": "string"
         },
         "bindings": {
            "string" : {
               "element": "string",
               "property": "string"
            }
         },
         "collectionBindingProperties": {
            "field": "string",
            "property": "string"
         },
         "componentName": "string",
         "concat": [
            "ComponentProperty"
         ],
         "condition": {
            "else": "ComponentProperty",
            "field": "string",
            "operand": "string",
            "operandType": "string",
            "operator": "string",
            "property": "string",
            "then": "ComponentProperty"
         },
         "configured": boolean,
         "defaultValue": "string",
         "event": "string",
         "importedValue": "string",
         "model": "string",
         "property": "string",
         "type": "string",
         "userAttribute": "string",
         "value": "string"
      },
      "id": {
         "bindingProperties": {
            "field": "string",
            "property": "string"
         },
         "bindings": {
            "string" : {
               "element": "string",
```

```
                        "property": "string"
                     }
                  },
                  "collectionBindingProperties": {
                     "field": "string",
                     "property": "string"
                  },
                  "componentName": "string",
                  "concat": [
                     "ComponentProperty"
                  ],
                  "condition": {
                     "else": "ComponentProperty",
                     "field": "string",
                     "operand": "string",
                     "operandType": "string",
                     "operator": "string",
                     "property": "string",
                     "then": "ComponentProperty"
                  },
                  "configured": boolean,
                  "defaultValue": "string",
                  "event": "string",
                  "importedValue": "string",
                  "model": "string",
                  "property": "string",
                  "type": "string",
                  "userAttribute": "string",
                  "value": "string"
               },
               "model": "string",
               "state": {
                  "componentName": "string",
                  "property": "string",
                  "set": {
                     "bindingProperties": {
                        "field": "string",
                        "property": "string"
                     },
                     "bindings": {
                        "string" : {
                           "element": "string",
                           "property": "string"
                        }
```

```
            },
            "collectionBindingProperties": {
               "field": "string",
               "property": "string"
            },
            "componentName": "string",
            "concat": [
               "ComponentProperty"
            ],
            "condition": {
               "else": "ComponentProperty",
               "field": "string",
               "operand": "string",
               "operandType": "string",
               "operator": "string",
               "property": "string",
               "then": "ComponentProperty"
            },
            "configured": boolean,
            "defaultValue": "string",
            "event": "string",
            "importedValue": "string",
            "model": "string",
            "property": "string",
            "type": "string",
            "userAttribute": "string",
            "value": "string"
         }
      },
      "target": {
         "bindingProperties": {
            "field": "string",
            "property": "string"
         },
         "bindings": {
            "string" : {
               "element": "string",
               "property": "string"
            }
         },
         "collectionBindingProperties": {
            "field": "string",
            "property": "string"
         },
```

```
            "componentName": "string",
            "concat": [
               "ComponentProperty"
            ],
            "condition": {
               "else": "ComponentProperty",
               "field": "string",
               "operand": "string",
               "operandType": "string",
               "operator": "string",
               "property": "string",
               "then": "ComponentProperty"
            },
            "configured": boolean,
            "defaultValue": "string",
            "event": "string",
            "importedValue": "string",
            "model": "string",
            "property": "string",
            "type": "string",
            "userAttribute": "string",
            "value": "string"
         },
         "type": {
            "bindingProperties": {
               "field": "string",
               "property": "string"
            },
            "bindings": {
               "string" : {
                  "element": "string",
                  "property": "string"
               }
            },
            "collectionBindingProperties": {
               "field": "string",
               "property": "string"
            },
            "componentName": "string",
            "concat": [
               "ComponentProperty"
            ],
            "condition": {
               "else": "ComponentProperty",
```

```
                "field": "string",
                "operand": "string",
                "operandType": "string",
                "operator": "string",
                "property": "string",
                "then": "ComponentProperty"
            },
            "configured": boolean,
            "defaultValue": "string",
            "event": "string",
            "importedValue": "string",
            "model": "string",
            "property": "string",
            "type": "string",
            "userAttribute": "string",
            "value": "string"
        },
        "url": {
            "bindingProperties": {
                "field": "string",
                "property": "string"
            },
            "bindings": {
                "string" : {
                    "element": "string",
                    "property": "string"
                }
            },
            "collectionBindingProperties": {
                "field": "string",
                "property": "string"
            },
            "componentName": "string",
            "concat": [
                "ComponentProperty"
            ],
            "condition": {
                "else": "ComponentProperty",
                "field": "string",
                "operand": "string",
                "operandType": "string",
                "operator": "string",
                "property": "string",
                "then": "ComponentProperty"
```

```
                    },
                    "configured": boolean,
                    "defaultValue": "string",
                    "event": "string",
                    "importedValue": "string",
                    "model": "string",
                    "property": "string",
                    "type": "string",
                    "userAttribute": "string",
                    "value": "string"
                 }
              }
           }
        },
        "name": "string",
        "properties": {
           "string" : {
              "bindingProperties": {
                 "field": "string",
                 "property": "string"
              },
              "bindings": {
                 "string" : {
                    "element": "string",
                    "property": "string"
                 }
              },
              "collectionBindingProperties": {
                 "field": "string",
                 "property": "string"
              },
              "componentName": "string",
              "concat": [
                 "ComponentProperty"
              ],
              "condition": {
                 "else": "ComponentProperty",
                 "field": "string",
                 "operand": "string",
                 "operandType": "string",
                 "operator": "string",
                 "property": "string",
                 "then": "ComponentProperty"
              },
```

```
                "configured": boolean,
                "defaultValue": "string",
                "event": "string",
                "importedValue": "string",
                "model": "string",
                "property": "string",
                "type": "string",
                "userAttribute": "string",
                "value": "string"
             }
          },
          "sourceId": "string"
       }
    ],
    "collectionProperties": {
       "string" : {
          "identifiers": [ "string" ],
          "model": "string",
          "predicate": {
             "and": [
                "Predicate"
             ],
             "field": "string",
             "operand": "string",
             "operandType": "string",
             "operator": "string",
             "or": [
                "Predicate"
             ]
          },
          "sort": [
             {
                "direction": "string",
                "field": "string"
             }
          ]
       }
    },
    "componentType": "string",
    "events": {
       "string" : {
          "action": "string",
          "bindingEvent": "string",
          "parameters": {
```

```
            "anchor": {
               "bindingProperties": {
                  "field": "string",
                  "property": "string"
               },
               "bindings": {
                  "string" : {
                     "element": "string",
                     "property": "string"
                  }
               },
               "collectionBindingProperties": {
                  "field": "string",
                  "property": "string"
               },
               "componentName": "string",
               "concat": [
                  "ComponentProperty"
               ],
               "condition": {
                  "else": "ComponentProperty",
                  "field": "string",
                  "operand": "string",
                  "operandType": "string",
                  "operator": "string",
                  "property": "string",
                  "then": "ComponentProperty"
               },
               "configured": boolean,
               "defaultValue": "string",
               "event": "string",
               "importedValue": "string",
               "model": "string",
               "property": "string",
               "type": "string",
               "userAttribute": "string",
               "value": "string"
            },
            "fields": {
               "string" : {
                  "bindingProperties": {
                     "field": "string",
                     "property": "string"
                  },
```

```
            "bindings": {
               "string" : {
                  "element": "string",
                  "property": "string"
               }
            },
            "collectionBindingProperties": {
               "field": "string",
               "property": "string"
            },
            "componentName": "string",
            "concat": [
               "ComponentProperty"
            ],
            "condition": {
               "else": "ComponentProperty",
               "field": "string",
               "operand": "string",
               "operandType": "string",
               "operator": "string",
               "property": "string",
               "then": "ComponentProperty"
            },
            "configured": boolean,
            "defaultValue": "string",
            "event": "string",
            "importedValue": "string",
            "model": "string",
            "property": "string",
            "type": "string",
            "userAttribute": "string",
            "value": "string"
         }
      },
      "global": {
         "bindingProperties": {
            "field": "string",
            "property": "string"
         },
         "bindings": {
            "string" : {
               "element": "string",
               "property": "string"
            }
```

```
      },
      "collectionBindingProperties": {
         "field": "string",
         "property": "string"
      },
      "componentName": "string",
      "concat": [
         "ComponentProperty"
      ],
      "condition": {
         "else": "ComponentProperty",
         "field": "string",
         "operand": "string",
         "operandType": "string",
         "operator": "string",
         "property": "string",
         "then": "ComponentProperty"
      },
      "configured": boolean,
      "defaultValue": "string",
      "event": "string",
      "importedValue": "string",
      "model": "string",
      "property": "string",
      "type": "string",
      "userAttribute": "string",
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               }
            },
            "variantValues": {
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            }
         }
      ]
}
```

URI Request Parameters

The request uses the following URI parameters.

appId

The unique ID for the Amplify app.

Required: Yes

clientToken

The unique client token.

environmentName

The name of the backend environment that is part of the Amplify app.

Required: Yes

id

The unique ID for the component.

Required: Yes

Request Body

The request accepts the following data in JSON format.

bindingProperties

The data binding information for the component's properties.

Type: String to ComponentBindingPropertiesValue object map

Required: No

children

The components that are instances of the main component.

Type: Array of ComponentChild objects

Required: No

collectionProperties

The configuration for binding a component's properties to a data model. Use this for a collection component.

Type: String to ComponentDataConfiguration object map

Required: No

componentType

The type of the component. This can be an Amplify custom UI component or another custom component.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

events

The event configuration for the component. Use for the workflow feature in Amplify Studio that allows you to bind events and actions to components.

Type: String to ComponentEvent object map

Required: No

id

The unique ID of the component to update.

Type: String

Required: No

name

The name of the component to update.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

overrides

Describes the properties that can be overriden to customize the component.

Type: String to string to string map map

Required: No

properties

Describes the component's properties.

Type: String to ComponentProperty object map

Required: No

schemaVersion

The schema version of the component when it was imported.

Type: String

Required: No

sourceId

The unique ID of the component in its original source system, such as Figma.

Type: String

Required: No

variants

A list of the unique variants of the main component being updated.

Type: Array of ComponentVariant objects

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

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            "field": "string",
            "key": "string",
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                     "Predicate"
                  ],
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                  "operand": "string",
                  "operandType": "string",
                  "operator": "string",
                  "or": [
                     "Predicate"
```

```
                ]
             }
          ],
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          "userAttribute": "string"
       },
       "defaultValue": "string",
       "type": "string"
    }
 },
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       ],
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                      }
                   },
                   "collectionBindingProperties": {
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                      "property": "string"
                   },
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```

```
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```

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```
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```

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```

```
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            "value": "string"
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```

```
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            },
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        }
    },
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```

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            },
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                    "property": "string"
                }
            },
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```

```
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            "componentName": "string",
            "concat": [
               "ComponentProperty"
            ],
            "condition": {
               "else": "ComponentProperty",
               "field": "string",
               "operand": "string",
               "operandType": "string",
               "operator": "string",
               "property": "string",
               "then": "ComponentProperty"
            },
            "configured": boolean,
            "defaultValue": "string",
            "event": "string",
            "importedValue": "string",
            "model": "string",
            "property": "string",
            "type": "string",
            "userAttribute": "string",
            "value": "string"
         },
         "url": {
            "bindingProperties": {
               "field": "string",
               "property": "string"
            },
            "bindings": {
               "string" : {
                  "element": "string",
                  "property": "string"
               }
            },
            "collectionBindingProperties": {
               "field": "string",
               "property": "string"
            },
            "componentName": "string",
            "concat": [
               "ComponentProperty"
            ],
            "condition": {
```

```
                    "else": "ComponentProperty",
                    "field": "string",
                    "operand": "string",
                    "operandType": "string",
                    "operator": "string",
                    "property": "string",
                    "then": "ComponentProperty"
                },
                "configured": boolean,
                "defaultValue": "string",
                "event": "string",
                "importedValue": "string",
                "model": "string",
                "property": "string",
                "type": "string",
                "userAttribute": "string",
                "value": "string"
            }
        }
    }
},
"id": "string",
"modifiedAt": "string",
"name": "string",
"overrides": {
    "string" : {
        "string" : "string"
    }
},
"properties": {
    "string" : {
        "bindingProperties": {
            "field": "string",
            "property": "string"
        },
        "bindings": {
            "string" : {
                "element": "string",
                "property": "string"
            }
        },
        "collectionBindingProperties": {
            "field": "string",
            "property": "string"
```

```
         },
         "componentName": "string",
         "concat": [
            "ComponentProperty"
         ],
         "condition": {
            "else": "ComponentProperty",
            "field": "string",
            "operand": "string",
            "operandType": "string",
            "operator": "string",
            "property": "string",
            "then": "ComponentProperty"
         },
         "configured": boolean,
         "defaultValue": "string",
         "event": "string",
         "importedValue": "string",
         "model": "string",
         "property": "string",
         "type": "string",
         "userAttribute": "string",
         "value": "string"
      }
   },
   "schemaVersion": "string",
   "sourceId": "string",
   "tags": {
      "string" : "string"
   },
   "variants": [
      {
         "overrides": {
            "string" : {
               "string" : "string"
            }
         },
         "variantValues": {
            "string" : "string"
         }
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

appId

The unique ID of the Amplify app associated with the component.

Type: String

bindingProperties

The information to connect a component's properties to data at runtime. You can't specify `tags` as a valid property for `bindingProperties`.

Type: String to ComponentBindingPropertiesValue object map

children

A list of the component's `ComponentChild` instances.

Type: Array of ComponentChild objects

collectionProperties

The data binding configuration for the component's properties. Use this for a collection component. You can't specify `tags` as a valid property for `collectionProperties`.

Type: String to ComponentDataConfiguration object map

componentType

The type of the component. This can be an Amplify custom UI component or another custom component.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

createdAt

The time that the component was created.

Type: Timestamp

environmentName

The name of the backend environment that is a part of the Amplify app.

Type: String

events

Describes the events that can be raised on the component. Use for the workflow feature in Amplify Studio that allows you to bind events and actions to components.

Type: String to ComponentEvent object map

id

The unique ID of the component.

Type: String

modifiedAt

The time that the component was modified.

Type: Timestamp

name

The name of the component.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

overrides

Describes the component's properties that can be overriden in a customized instance of the component. You can't specify `tags` as a valid property for `overrides`.

Type: String to string to string map map

properties

Describes the component's properties. You can't specify `tags` as a valid property for `properties`.

Type: String to ComponentProperty object map

schemaVersion

The schema version of the component when it was imported.

Type: String

sourceId

The unique ID of the component in its original source system, such as Figma.

Type: String

tags

One or more key-value pairs to use when tagging the component.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `(?!aws:)[a-zA-Z+-=._:/]+`

Value Length Constraints: Minimum length of 1. Maximum length of 256.

variants

A list of the component's variants. A variant is a unique style configuration of a main component.

Type: Array of ComponentVariant objects

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServerException

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

ResourceConflictException

The resource specified in the request conflicts with an existing resource.

HTTP Status Code: 409

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateForm

Updates an existing form.

Request Syntax

```
PATCH /app/appId/environment/environmentName/forms/id?clientToken=clientToken HTTP/1.1
Content-type: application/json

{
   "cta": {
      "cancel": {
         "children": "string",
         "excluded": boolean,
         "position": { ... }
      },
      "clear": {
         "children": "string",
         "excluded": boolean,
         "position": { ... }
      },
      "position": "string",
      "submit": {
         "children": "string",
         "excluded": boolean,
         "position": { ... }
      }
   },
   "dataType": {
      "dataSourceType": "string",
      "dataTypeName": "string"
   },
   "fields": {
      "string" : {
         "excluded": boolean,
         "inputType": {
            "defaultChecked": boolean,
            "defaultCountryCode": "string",
            "defaultValue": "string",
            "descriptiveText": "string",
            "fileUploaderConfig": {
               "acceptedFileTypes": [ "string" ],
               "accessLevel": "string",
```

```
            "isResumable": boolean,
            "maxFileCount": number,
            "maxSize": number,
            "showThumbnails": boolean
         },
         "isArray": boolean,
         "maxValue": number,
         "minValue": number,
         "name": "string",
         "placeholder": "string",
         "readOnly": boolean,
         "required": boolean,
         "step": number,
         "type": "string",
         "value": "string",
         "valueMappings": {
            "bindingProperties": {
               "string" : {
                  "bindingProperties": {
                     "model": "string"
                  },
                  "type": "string"
               }
            },
            "values": [
               {
                  "displayValue": {
                     "bindingProperties": {
                        "field": "string",
                        "property": "string"
                     },
                     "concat": [
                        "FormInputValueProperty"
                     ],
                     "value": "string"
                  },
                  "value": {
                     "bindingProperties": {
                        "field": "string",
                        "property": "string"
                     },
                     "concat": [
                        "FormInputValueProperty"
                     ],
```

```
                        "value": "string"
                     }
                  }
               ]
            }
         },
         "label": "string",
         "position": { ... },
         "validations": [
            {
               "numValues": [ number ],
               "strValues": [ "string" ],
               "type": "string",
               "validationMessage": "string"
            }
         ]
      }
   },
   "formActionType": "string",
   "labelDecorator": "string",
   "name": "string",
   "schemaVersion": "string",
   "sectionalElements": {
      "string" : {
         "excluded": boolean,
         "level": number,
         "orientation": "string",
         "position": { ... },
         "text": "string",
         "type": "string"
      }
   },
   "style": {
      "horizontalGap": { ... },
      "outerPadding": { ... },
      "verticalGap": { ... }
   }
}
```

URI Request Parameters

The request uses the following URI parameters.

appId

The unique ID for the Amplify app.

Required: Yes

clientToken

The unique client token.

environmentName

The name of the backend environment that is part of the Amplify app.

Required: Yes

id

The unique ID for the form.

Required: Yes

Request Body

The request accepts the following data in JSON format.

cta

The `FormCTA` object that stores the call to action configuration for the form.

Type: FormCTA object

Required: No

dataType

The type of data source to use to create the form.

Type: FormDataTypeConfig object

Required: No

fields

The configuration information for the form's fields.

Type: String to FieldConfig object map

Required: No

formActionType

Specifies whether to perform a create or update action on the form.

Type: String

Valid Values: `create | update`

Required: No

labelDecorator

Specifies an icon or decoration to display on the form.

Type: String

Valid Values: `required | optional | none`

Required: No

name

The name of the form.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

schemaVersion

The schema version of the form.

Type: String

Required: No

sectionalElements

The configuration information for the visual helper elements for the form. These elements are not associated with any data.

Type: String to SectionalElement object map

Required: No

style

The configuration for the form's style.

Type: FormStyle object

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "appId": "string",
   "cta": {
      "cancel": {
         "children": "string",
         "excluded": boolean,
         "position": { ... }
      },
      "clear": {
         "children": "string",
         "excluded": boolean,
         "position": { ... }
      },
      "position": "string",
      "submit": {
         "children": "string",
         "excluded": boolean,
         "position": { ... }
      }
   },
   "dataType": {
      "dataSourceType": "string",
      "dataTypeName": "string"
   },
   "environmentName": "string",
   "fields": {
      "string" : {
         "excluded": boolean,
         "inputType": {
            "defaultChecked": boolean,
```

```
            "defaultCountryCode": "string",
            "defaultValue": "string",
            "descriptiveText": "string",
            "fileUploaderConfig": {
               "acceptedFileTypes": [ "string" ],
               "accessLevel": "string",
               "isResumable": boolean,
               "maxFileCount": number,
               "maxSize": number,
               "showThumbnails": boolean
            },
            "isArray": boolean,
            "maxValue": number,
            "minValue": number,
            "name": "string",
            "placeholder": "string",
            "readOnly": boolean,
            "required": boolean,
            "step": number,
            "type": "string",
            "value": "string",
            "valueMappings": {
               "bindingProperties": {
                  "string" : {
                     "bindingProperties": {
                        "model": "string"
                     },
                     "type": "string"
                  }
               },
               "values": [
                  {
                     "displayValue": {
                        "bindingProperties": {
                           "field": "string",
                           "property": "string"
                        },
                        "concat": [
                           "FormInputValueProperty"
                        ],
                        "value": "string"
                     },
                     "value": {
                        "bindingProperties": {
```

```
                        "field": "string",
                        "property": "string"
                     },
                     "concat": [
                        "FormInputValueProperty"
                     ],
                     "value": "string"
                  }
               }
            ]
         }
      },
      "label": "string",
      "position": { ... },
      "validations": [
         {
            "numValues": [ number ],
            "strValues": [ "string" ],
            "type": "string",
            "validationMessage": "string"
         }
      ]
   }
},
"formActionType": "string",
"id": "string",
"labelDecorator": "string",
"name": "string",
"schemaVersion": "string",
"sectionalElements": {
   "string" : {
      "excluded": boolean,
      "level": number,
      "orientation": "string",
      "position": { ... },
      "text": "string",
      "type": "string"
   }
},
"style": {
   "horizontalGap": { ... },
   "outerPadding": { ... },
   "verticalGap": { ... }
},
```

```
   "tags": {
      "string" : "string"
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

appId

The unique ID of the Amplify app associated with the form.

Type: String

cta

Stores the call to action configuration for the form.

Type: FormCTA object

dataType

The type of data source to use to create the form.

Type: FormDataTypeConfig object

environmentName

The name of the backend environment that is a part of the Amplify app.

Type: String

fields

Stores the information about the form's fields.

Type: String to FieldConfig object map

formActionType

The operation to perform on the specified form.

Type: String

Valid Values: `create | update`

id

The unique ID of the form.

Type: String

labelDecorator

Specifies an icon or decoration to display on the form.

Type: String

Valid Values: `required | optional | none`

name

The name of the form.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

schemaVersion

The schema version of the form when it was imported.

Type: String

sectionalElements

Stores the visual helper elements for the form that are not associated with any data.

Type: String to SectionalElement object map

style

Stores the configuration for the form's style.

Type: FormStyle object

tags

One or more key-value pairs to use when tagging the form.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `(?!aws:)[a-zA-Z+-=._:/]+`

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServerException

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

ResourceConflictException

The resource specified in the request conflicts with an existing resource.

HTTP Status Code: 409

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3

- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateTheme

Updates an existing theme.

Request Syntax

```
PATCH /app/appId/environment/environmentName/themes/id?clientToken=clientToken HTTP/1.1
Content-type: application/json

{
   "id": "string",
   "name": "string",
   "overrides": [
      {
         "key": "string",
         "value": {
            "children": [
               "ThemeValues"
            ],
            "value": "string"
         }
      }
   ],
   "values": [
      {
         "key": "string",
         "value": {
            "children": [
               "ThemeValues"
            ],
            "value": "string"
         }
      }
   ]
}
```

URI Request Parameters

The request uses the following URI parameters.

appId

The unique ID for the Amplify app.

Required: Yes

clientToken

The unique client token.

environmentName

The name of the backend environment that is part of the Amplify app.

Required: Yes

id

The unique ID for the theme.

Required: Yes

Request Body

The request accepts the following data in JSON format.

id

The unique ID of the theme to update.

Type: String

Required: No

name

The name of the theme to update.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

overrides

Describes the properties that can be overriden to customize the theme.

Type: Array of ThemeValues objects

Required: No

values

A list of key-value pairs that define the theme's properties.

Type: Array of ThemeValues objects

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "appId": "string",
   "createdAt": "string",
   "environmentName": "string",
   "id": "string",
   "modifiedAt": "string",
   "name": "string",
   "overrides": [
      {
         "key": "string",
         "value": {
            "children": [
               "ThemeValues"
            ],
            "value": "string"
         }
      }
   ],
   "tags": {
      "string" : "string"
   },
   "values": [
      {
         "key": "string",
         "value": {
            "children": [
```

```
                "ThemeValues"
            ],
            "value": "string"
        }
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

appId

The unique ID for the Amplify app associated with the theme.

Type: String

createdAt

The time that the theme was created.

Type: Timestamp

environmentName

The name of the backend environment that is a part of the Amplify app.

Type: String

id

The ID for the theme.

Type: String

modifiedAt

The time that the theme was modified.

Type: Timestamp

name

The name of the theme.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

overrides

Describes the properties that can be overriden to customize a theme.

Type: Array of ThemeValues objects

tags

One or more key-value pairs to use when tagging the theme.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `(?!aws:)[a-zA-Z+-=._:/]+`

Value Length Constraints: Minimum length of 1. Maximum length of 256.

values

A list of key-value pairs that defines the properties of the theme.

Type: Array of ThemeValues objects

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServerException

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

ResourceConflictException

The resource specified in the request conflicts with an existing resource.

HTTP Status Code: 409

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

Data Types

The AWS Amplify UI Builder API contains several data types that various actions use. This section describes each data type in detail.

> **Note**
>
> The order of each element in a data type structure is not guaranteed. Applications should not assume a particular order.

The following data types are supported:

- ActionParameters
- ApiConfiguration
- CodegenDependency
- CodegenFeatureFlags
- CodegenGenericDataEnum
- CodegenGenericDataField
- CodegenGenericDataModel
- CodegenGenericDataNonModel
- CodegenGenericDataRelationshipType
- CodegenJob
- CodegenJobAsset
- CodegenJobGenericDataSchema
- CodegenJobRenderConfig
- CodegenJobSummary
- Component
- ComponentBindingPropertiesValue
- ComponentBindingPropertiesValueProperties
- ComponentChild
- ComponentConditionProperty
- ComponentDataConfiguration

- ComponentEvent
- ComponentProperty
- ComponentPropertyBindingProperties
- ComponentSummary
- ComponentVariant
- CreateComponentData
- CreateFormData
- CreateThemeData
- DataStoreRenderConfig
- ExchangeCodeForTokenRequestBody
- FieldConfig
- FieldInputConfig
- FieldPosition
- FieldValidationConfiguration
- FileUploaderFieldConfig
- Form
- FormBindingElement
- FormButton
- FormCTA
- FormDataTypeConfig
- FormInputBindingPropertiesValue
- FormInputBindingPropertiesValueProperties
- FormInputValueProperty
- FormInputValuePropertyBindingProperties
- FormStyle
- FormStyleConfig
- FormSummary
- GraphQLRenderConfig
- MutationActionSetStateParameter
- NoApiRenderConfig

- Predicate
- PutMetadataFlagBody
- ReactStartCodegenJobData
- RefreshTokenRequestBody
- SectionalElement
- SortProperty
- StartCodegenJobData
- Theme
- ThemeSummary
- ThemeValue
- ThemeValues
- UpdateComponentData
- UpdateFormData
- UpdateThemeData
- ValueMapping
- ValueMappings

ActionParameters

Represents the event action configuration for an element of a `Component` or `ComponentChild`. Use for the workflow feature in Amplify Studio that allows you to bind events and actions to components. `ActionParameters` defines the action that is performed when an event occurs on the component.

Contents

anchor

The HTML anchor link to the location to open. Specify this value for a navigation action.

Type: ComponentProperty object

Required: No

fields

A dictionary of key-value pairs mapping Amplify Studio properties to fields in a data model. Use when the action performs an operation on an Amplify DataStore model.

Type: String to ComponentProperty object map

Required: No

global

Specifies whether the user should be signed out globally. Specify this value for an auth sign out action.

Type: ComponentProperty object

Required: No

id

The unique ID of the component that the `ActionParameters` apply to.

Type: ComponentProperty object

Required: No

model

The name of the data model. Use when the action performs an operation on an Amplify DataStore model.

Type: String

Required: No

state

A key-value pair that specifies the state property name and its initial value.

Type: MutationActionSetStateParameter object

Required: No

target

The element within the same component to modify when the action occurs.

Type: ComponentProperty object

Required: No

type

The type of navigation action. Valid values are `url` and `anchor`. This value is required for a navigation action.

Type: ComponentProperty object

Required: No

url

The URL to the location to open. Specify this value for a navigation action.

Type: ComponentProperty object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ApiConfiguration

Describes the API configuration for a code generation job.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

dataStoreConfig

The configuration for an application using DataStore APIs.

Type: DataStoreRenderConfig object

Required: No

graphQLConfig

The configuration for an application using GraphQL APIs.

Type: GraphQLRenderConfig object

Required: No

noApiConfig

The configuration for an application with no API being used.

Type: NoApiRenderConfig object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++

- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CodegenDependency

Dependency package that may be required for the project code to run.

Contents

isSemVer

Determines if the dependency package is using Semantic versioning. If set to true, it indicates that the dependency package uses Semantic versioning.

Type: Boolean

Required: No

name

Name of the dependency package.

Type: String

Required: No

reason

Indicates the reason to include the dependency package in your project code.

Type: String

Required: No

supportedVersion

Indicates the version of the supported dependency package.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CodegenFeatureFlags

Describes the feature flags that you can specify for a code generation job.

Contents

isNonModelSupported

Specifies whether a code generation job supports non models.

Type: Boolean

Required: No

isRelationshipSupported

Specifes whether a code generation job supports data relationships.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CodegenGenericDataEnum

Describes the enums in a generic data schema.

Contents

values

The list of enum values in the generic data schema.

Type: Array of strings

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CodegenGenericDataField

Describes a field in a generic data schema.

Contents

dataType

The data type for the generic data field.

Type: String

Valid Values: `ID | String | Int | Float | AWSDate | AWSTime | AWSDateTime | AWSTimestamp | AWSEmail | AWSURL | AWSIPAddress | Boolean | AWSJSON | AWSPhone | Enum | Model | NonModel`

Required: Yes

dataTypeValue

The value of the data type for the generic data field.

Type: String

Required: Yes

isArray

Specifies whether the generic data field is an array.

Type: Boolean

Required: Yes

readOnly

Specifies whether the generic data field is read-only.

Type: Boolean

Required: Yes

required

Specifies whether the generic data field is required.

Type: Boolean

Required: Yes

relationship

The relationship of the generic data schema.

Type: CodegenGenericDataRelationshipType object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CodegenGenericDataModel

Describes a model in a generic data schema.

Contents

fields

The fields in the generic data model.

Type: String to CodegenGenericDataField object map

Required: Yes

primaryKeys

The primary keys of the generic data model.

Type: Array of strings

Required: Yes

isJoinTable

Specifies whether the generic data model is a join table.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CodegenGenericDataNonModel

Describes a non-model in a generic data schema.

Contents

fields

The fields in a generic data schema non model.

Type: String to CodegenGenericDataField object map

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CodegenGenericDataRelationshipType

Describes the relationship between generic data models.

Contents

relatedModelName

The name of the related model in the data relationship.

Type: String

Required: Yes

type

The data relationship type.

Type: String

Valid Values: `HAS_MANY | HAS_ONE | BELONGS_TO`

Required: Yes

associatedFields

The associated fields of the data relationship.

Type: Array of strings

Required: No

belongsToFieldOnRelatedModel

The value of the `belongsTo` field on the related data model.

Type: String

Required: No

canUnlinkAssociatedModel

Specifies whether the relationship can unlink the associated model.

Type: Boolean

Required: No

isHasManyIndex

Specifies whether the `@index` directive is supported for a `hasMany` data relationship.

Type: Boolean

Required: No

relatedJoinFieldName

The name of the related join field in the data relationship.

Type: String

Required: No

relatedJoinTableName

The name of the related join table in the data relationship.

Type: String

Required: No

relatedModelFields

The related model fields in the data relationship.

Type: Array of strings

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CodegenJob

Describes the configuration for a code generation job that is associated with an Amplify app.

Contents

appId

The ID of the Amplify app associated with the code generation job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 20.

Pattern: `d[a-z0-9]+`

Required: Yes

environmentName

The name of the backend environment associated with the code generation job.

Type: String

Required: Yes

id

The unique ID for the code generation job.

Type: String

Required: Yes

asset

The `CodegenJobAsset` to use for the code generation job.

Type: CodegenJobAsset object

Required: No

autoGenerateForms

Specifies whether to autogenerate forms in the code generation job.

Type: Boolean

Required: No

createdAt

The time that the code generation job was created.

Type: Timestamp

Required: No

dependencies

Lists the dependency packages that may be required for the project code to run.

Type: Array of CodegenDependency objects

Required: No

features

Describes the feature flags that you can specify for a code generation job.

Type: CodegenFeatureFlags object

Required: No

genericDataSchema

Describes the data schema for a code generation job.

Type: CodegenJobGenericDataSchema object

Required: No

modifiedAt

The time that the code generation job was modified.

Type: Timestamp

Required: No

renderConfig

Describes the configuration information for rendering the UI component associated with the code generation job.

Type: CodegenJobRenderConfig object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

status

The status of the code generation job.

Type: String

Valid Values: `in_progress | failed | succeeded`

Required: No

statusMessage

The customized status message for the code generation job.

Type: String

Required: No

tags

One or more key-value pairs to use when tagging the code generation job.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `(?!aws:)[a-zA-Z+-=._:/]+`

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++

- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CodegenJobAsset

Describes an asset for a code generation job.

Contents

downloadUrl

The URL to use to access the asset.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CodegenJobGenericDataSchema

Describes the data schema for a code generation job.

Contents

dataSourceType

The type of the data source for the schema. Currently, the only valid value is an Amplify `DataStore`.

Type: String

Valid Values: `DataStore`

Required: Yes

enums

The name of a `CodegenGenericDataEnum`.

Type: String to CodegenGenericDataEnum object map

Required: Yes

models

The name of a `CodegenGenericDataModel`.

Type: String to CodegenGenericDataModel object map

Required: Yes

nonModels

The name of a `CodegenGenericDataNonModel`.

Type: String to CodegenGenericDataNonModel object map

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CodegenJobRenderConfig

Describes the configuration information for rendering the UI component associated with the code generation job.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

react

The name of the `ReactStartCodegenJobData` object.

Type: ReactStartCodegenJobData object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CodegenJobSummary

A summary of the basic information about the code generation job.

Contents

appId

The unique ID of the Amplify app associated with the code generation job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 20.

Pattern: `d[a-z0-9]+`

Required: Yes

environmentName

The name of the backend environment associated with the code generation job.

Type: String

Required: Yes

id

The unique ID for the code generation job summary.

Type: String

Required: Yes

createdAt

The time that the code generation job summary was created.

Type: Timestamp

Required: No

modifiedAt

The time that the code generation job summary was modified.

Type: Timestamp

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Component

Contains the configuration settings for a user interface (UI) element for an Amplify app. A component is configured as a primary, stand-alone UI element. Use `ComponentChild` to configure an instance of a `Component`. A `ComponentChild` instance inherits the configuration of the main `Component`.

Contents

appId

The unique ID of the Amplify app associated with the component.

Type: String

Required: Yes

bindingProperties

The information to connect a component's properties to data at runtime. You can't specify `tags` as a valid property for `bindingProperties`.

Type: String to ComponentBindingPropertiesValue object map

Required: Yes

componentType

The type of the component. This can be an Amplify custom UI component or another custom component.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

createdAt

The time that the component was created.

Type: Timestamp

Required: Yes

environmentName

The name of the backend environment that is a part of the Amplify app.

Type: String

Required: Yes

id

The unique ID of the component.

Type: String

Required: Yes

name

The name of the component.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

overrides

Describes the component's properties that can be overriden in a customized instance of the component. You can't specify `tags` as a valid property for `overrides`.

Type: String to string to string map map

Required: Yes

properties

Describes the component's properties. You can't specify `tags` as a valid property for `properties`.

Type: String to ComponentProperty object map

Required: Yes

variants

A list of the component's variants. A variant is a unique style configuration of a main component.

Type: Array of ComponentVariant objects

Required: Yes

children

A list of the component's `ComponentChild` instances.

Type: Array of ComponentChild objects

Required: No

collectionProperties

The data binding configuration for the component's properties. Use this for a collection component. You can't specify `tags` as a valid property for `collectionProperties`.

Type: String to ComponentDataConfiguration object map

Required: No

events

Describes the events that can be raised on the component. Use for the workflow feature in Amplify Studio that allows you to bind events and actions to components.

Type: String to ComponentEvent object map

Required: No

modifiedAt

The time that the component was modified.

Type: Timestamp

Required: No

schemaVersion

The schema version of the component when it was imported.

Type: String

Required: No

sourceId

The unique ID of the component in its original source system, such as Figma.

Type: String

Required: No

tags

One or more key-value pairs to use when tagging the component.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `(?!aws:)[a-zA-Z+-=._:/]+`

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ComponentBindingPropertiesValue

Represents the data binding configuration for a component at runtime. You can use `ComponentBindingPropertiesValue` to add exposed properties to a component to allow different values to be entered when a component is reused in different places in an app.

Contents

bindingProperties

Describes the properties to customize with data at runtime.

Type: ComponentBindingPropertiesValueProperties object

Required: No

defaultValue

The default value of the property.

Type: String

Required: No

type

The property type.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ComponentBindingPropertiesValueProperties

Represents the data binding configuration for a specific property using data stored in AWS. For AWS connected properties, you can bind a property to data stored in an Amazon S3 bucket, an Amplify DataStore model or an authenticated user attribute.

Contents

bucket

An Amazon S3 bucket.

Type: String

Required: No

defaultValue

The default value to assign to the property.

Type: String

Required: No

field

The field to bind the data to.

Type: String

Required: No

key

The storage key for an Amazon S3 bucket.

Type: String

Required: No

model

An Amplify DataStore model.

Type: String

Required: No

predicates

A list of predicates for binding a component's properties to data.

Type: Array of Predicate objects

Required: No

slotName

The name of a component slot.

Type: String

Required: No

userAttribute

An authenticated user attribute.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ComponentChild

A nested UI configuration within a parent `Component`.

Contents

componentType

The type of the child component.

Type: String

Required: Yes

name

The name of the child component.

Type: String

Required: Yes

properties

Describes the properties of the child component. You can't specify `tags` as a valid property for `properties`.

Type: String to ComponentProperty object map

Required: Yes

children

The list of `ComponentChild` instances for this component.

Type: Array of ComponentChild objects

Required: No

events

Describes the events that can be raised on the child component. Use for the workflow feature in Amplify Studio that allows you to bind events and actions to components.

Type: String to ComponentEvent object map

Required: No

sourceId

The unique ID of the child component in its original source system, such as Figma.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ComponentConditionProperty

Represents a conditional expression to set a component property. Use `ComponentConditionProperty` to set a property to different values conditionally, based on the value of another property.

Contents

else

The value to assign to the property if the condition is not met.

Type: ComponentProperty object

Required: No

field

The name of a field. Specify this when the property is a data model.

Type: String

Required: No

operand

The value of the property to evaluate.

Type: String

Required: No

operandType

The type of the property to evaluate.

Type: String

Required: No

operator

The operator to use to perform the evaluation, such as `eq` to represent equals.

Type: String

Required: No

property

The name of the conditional property.

Type: String

Required: No

then

The value to assign to the property if the condition is met.

Type: ComponentProperty object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ComponentDataConfiguration

Describes the configuration for binding a component's properties to data.

Contents

model

The name of the data model to use to bind data to a component.

Type: String

Required: Yes

identifiers

A list of IDs to use to bind data to a component. Use this property to bind specifically chosen data, rather than data retrieved from a query.

Type: Array of strings

Required: No

predicate

Represents the conditional logic to use when binding data to a component. Use this property to retrieve only a subset of the data in a collection.

Type: Predicate object

Required: No

sort

Describes how to sort the component's properties.

Type: Array of SortProperty objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ComponentEvent

Describes the configuration of an event. You can bind an event and a corresponding action to a `Component` or a `ComponentChild`. A button click is an example of an event.

Contents

action

The action to perform when a specific event is raised.

Type: String

Required: No

bindingEvent

Binds an event to an action on a component. When you specify a `bindingEvent`, the event is called when the action is performed.

Type: String

Required: No

parameters

Describes information about the action.

Type: ActionParameters object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ComponentProperty

Describes the configuration for all of a component's properties. Use `ComponentProperty` to specify the values to render or bind by default.

Contents

bindingProperties

The information to bind the component property to data at runtime.

Type: ComponentPropertyBindingProperties object

Required: No

bindings

The information to bind the component property to form data.

Type: String to FormBindingElement object map

Required: No

collectionBindingProperties

The information to bind the component property to data at runtime. Use this for collection components.

Type: ComponentPropertyBindingProperties object

Required: No

componentName

The name of the component that is affected by an event.

Type: String

Required: No

concat

A list of component properties to concatenate to create the value to assign to this component property.

Type: Array of ComponentProperty objects

Required: No

condition

The conditional expression to use to assign a value to the component property.

Type: ComponentConditionProperty object

Required: No

configured

Specifies whether the user configured the property in Amplify Studio after importing it.

Type: Boolean

Required: No

defaultValue

The default value to assign to the component property.

Type: String

Required: No

event

An event that occurs in your app. Use this for workflow data binding.

Type: String

Required: No

importedValue

The default value assigned to the property when the component is imported into an app.

Type: String

Required: No

model

The data model to use to assign a value to the component property.

Type: String

Required: No

property

The name of the component's property that is affected by an event.

Type: String

Required: No

type

The component type.

Type: String

Required: No

userAttribute

An authenticated user attribute to use to assign a value to the component property.

Type: String

Required: No

value

The value to assign to the component property.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2

- AWS SDK for Ruby V3

ComponentPropertyBindingProperties

Associates a component property to a binding property. This enables exposed properties on the top level component to propagate data to the component's property values.

Contents

property

The component property to bind to the data field.

Type: String

Required: Yes

field

The data field to bind the property to.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ComponentSummary

Contains a summary of a component. This is a read-only data type that is returned by `ListComponents`.

Contents

appId

The unique ID of the Amplify app associated with the component.

Type: String

Required: Yes

componentType

The component type.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

environmentName

The name of the backend environment that is a part of the Amplify app.

Type: String

Required: Yes

id

The unique ID of the component.

Type: String

Required: Yes

name

The name of the component.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ComponentVariant

Describes the style configuration of a unique variation of a main component.

Contents

overrides

The properties of the component variant that can be overriden when customizing an instance of the component. You can't specify `tags` as a valid property for `overrides`.

Type: String to string to string map map

Required: No

variantValues

The combination of variants that comprise this variant. You can't specify `tags` as a valid property for `variantValues`.

Type: String to string map

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CreateComponentData

Represents all of the information that is required to create a component.

Contents

bindingProperties

The data binding information for the component's properties.

Type: String to ComponentBindingPropertiesValue object map

Required: Yes

componentType

The component type. This can be an Amplify custom UI component or another custom component.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

name

The name of the component

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

overrides

Describes the component properties that can be overriden to customize an instance of the component.

Type: String to string to string map map

Required: Yes

properties

Describes the component's properties.

Type: String to ComponentProperty object map

Required: Yes

variants

A list of the unique variants of this component.

Type: Array of ComponentVariant objects

Required: Yes

children

A list of child components that are instances of the main component.

Type: Array of ComponentChild objects

Required: No

collectionProperties

The data binding configuration for customizing a component's properties. Use this for a collection component.

Type: String to ComponentDataConfiguration object map

Required: No

events

The event configuration for the component. Use for the workflow feature in Amplify Studio that allows you to bind events and actions to components.

Type: String to ComponentEvent object map

Required: No

schemaVersion

The schema version of the component when it was imported.

Type: String

Required: No

sourceId

The unique ID of the component in its original source system, such as Figma.

Type: String

Required: No

tags

One or more key-value pairs to use when tagging the component data.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `(?!aws:)[a-zA-Z+-=._:/]+`

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CreateFormData

Represents all of the information that is required to create a form.

Contents

dataType

The type of data source to use to create the form.

Type: FormDataTypeConfig object

Required: Yes

fields

The configuration information for the form's fields.

Type: String to FieldConfig object map

Required: Yes

formActionType

Specifies whether to perform a create or update action on the form.

Type: String

Valid Values: `create | update`

Required: Yes

name

The name of the form.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

schemaVersion

The schema version of the form.

Type: String

Required: Yes

sectionalElements

The configuration information for the visual helper elements for the form. These elements are not associated with any data.

Type: String to SectionalElement object map

Required: Yes

style

The configuration for the form's style.

Type: FormStyle object

Required: Yes

cta

The `FormCTA` object that stores the call to action configuration for the form.

Type: FormCTA object

Required: No

labelDecorator

Specifies an icon or decoration to display on the form.

Type: String

Valid Values: `required | optional | none`

Required: No

tags

One or more key-value pairs to use when tagging the form data.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `(?!aws:)[a-zA-Z+-=._:/]+`

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CreateThemeData

Represents all of the information that is required to create a theme.

Contents

name

The name of the theme.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

values

A list of key-value pairs that defines the properties of the theme.

Type: Array of ThemeValues objects

Required: Yes

overrides

Describes the properties that can be overriden to customize an instance of the theme.

Type: Array of ThemeValues objects

Required: No

tags

One or more key-value pairs to use when tagging the theme data.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `(?!aws:)[a-zA-Z+-=._:/]+`

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DataStoreRenderConfig

Describes the DataStore configuration for an API for a code generation job.

Contents

The members of this exception structure are context-dependent.

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ExchangeCodeForTokenRequestBody

Describes the configuration of a request to exchange an access code for a token.

Contents

code

The access code to send in the request.

Type: String

Required: Yes

redirectUri

The location of the application that will receive the access code.

Type: String

Required: Yes

clientId

The ID of the client to request the token from.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

FieldConfig

Describes the configuration information for a field in a table.

Contents

excluded

Specifies whether to hide a field.

Type: Boolean

Required: No

inputType

Describes the configuration for the default input value to display for a field.

Type: FieldInputConfig object

Required: No

label

The label for the field.

Type: String

Required: No

position

Specifies the field position.

Type: FieldPosition object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

validations

The validations to perform on the value in the field.

Type: Array of FieldValidationConfiguration objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

FieldInputConfig

Describes the configuration for the default input values to display for a field.

Contents

type

The input type for the field.

Type: String

Required: Yes

defaultChecked

Specifies whether a field has a default value.

Type: Boolean

Required: No

defaultCountryCode

The default country code for a phone number.

Type: String

Required: No

defaultValue

The default value for the field.

Type: String

Required: No

descriptiveText

The text to display to describe the field.

Type: String

Required: No

fileUploaderConfig

The configuration for the file uploader field.

Type: FileUploaderFieldConfig object

Required: No

isArray

Specifies whether to render the field as an array. This property is ignored if the `dataSourceType` for the form is a Data Store.

Type: Boolean

Required: No

maxValue

The maximum value to display for the field.

Type: Float

Required: No

minValue

The minimum value to display for the field.

Type: Float

Required: No

name

The name of the field.

Type: String

Required: No

placeholder

The text to display as a placeholder for the field.

Type: String

Required: No

readOnly

Specifies a read only field.

Type: Boolean

Required: No

required

Specifies a field that requires input.

Type: Boolean

Required: No

step

The stepping increment for a numeric value in a field.

Type: Float

Required: No

value

The value for the field.

Type: String

Required: No

valueMappings

The information to use to customize the input fields with data at runtime.

Type: ValueMappings object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

FieldPosition

Describes the field position.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

below

The field position is below the field specified by the string.

Type: String

Required: No

fixed

The field position is fixed and doesn't change in relation to other fields.

Type: String

Valid Values: `first`

Required: No

rightOf

The field position is to the right of the field specified by the string.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

FieldValidationConfiguration

Describes the validation configuration for a field.

Contents

type

The validation to perform on an object type.

Type: String

Required: Yes

numValues

The validation to perform on a number value.

Type: Array of integers

Required: No

strValues

The validation to perform on a string value.

Type: Array of strings

Required: No

validationMessage

The validation message to display.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++

- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

FileUploaderFieldConfig

Describes the configuration for the file uploader field.

Contents

acceptedFileTypes

The file types that are allowed to be uploaded by the file uploader. Provide this information in an array of strings specifying the valid file extensions.

Type: Array of strings

Required: Yes

accessLevel

The access level to assign to the uploaded files in the Amazon S3 bucket where they are stored. The valid values for this property are `private`, `protected`, or `public`. For detailed information about the permissions associated with each access level, see File access levels in the *Amplify documentation*.

Type: String

Valid Values: `public | protected | private`

Required: Yes

isResumable

Allows the file upload operation to be paused and resumed. The default value is `false`.

When `isResumable` is set to `true`, the file uploader uses a multipart upload to break the files into chunks before upload. The progress of the upload isn't continuous, because the file uploader uploads a chunk at a time.

Type: Boolean

Required: No

maxFileCount

Specifies the maximum number of files that can be selected to upload. The default value is an unlimited number of files.

Type: Integer

Required: No

maxSize

The maximum file size in bytes that the file uploader will accept. The default value is an unlimited file size.

Type: Integer

Required: No

showThumbnails

Specifies whether to display or hide the image preview after selecting a file for upload. The default value is `true` to display the image preview.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Form

Contains the configuration settings for a `Form` user interface (UI) element for an Amplify app. A form is a component you can add to your project by specifying a data source as the default configuration for the form.

Contents

appId

The unique ID of the Amplify app associated with the form.

Type: String

Required: Yes

dataType

The type of data source to use to create the form.

Type: FormDataTypeConfig object

Required: Yes

environmentName

The name of the backend environment that is a part of the Amplify app.

Type: String

Required: Yes

fields

Stores the information about the form's fields.

Type: String to FieldConfig object map

Required: Yes

formActionType

The operation to perform on the specified form.

Type: String

Valid Values: `create | update`

Required: Yes

id

The unique ID of the form.

Type: String

Required: Yes

name

The name of the form.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

schemaVersion

The schema version of the form when it was imported.

Type: String

Required: Yes

sectionalElements

Stores the visual helper elements for the form that are not associated with any data.

Type: String to SectionalElement object map

Required: Yes

style

Stores the configuration for the form's style.

Type: FormStyle object

Required: Yes

cta

Stores the call to action configuration for the form.

Type: FormCTA object

Required: No

labelDecorator

Specifies an icon or decoration to display on the form.

Type: String

Valid Values: `required | optional | none`

Required: No

tags

One or more key-value pairs to use when tagging the form.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `(?!aws:)[a-zA-Z+-=._:/]+`

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

FormBindingElement

Describes how to bind a component property to form data.

Contents

element

The name of the component to retrieve a value from.

Type: String

Required: Yes

property

The property to retrieve a value from.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

FormButton

Describes the configuration for a button UI element that is a part of a form.

Contents

children

Describes the button's properties.

Type: String

Required: No

excluded

Specifies whether the button is visible on the form.

Type: Boolean

Required: No

position

The position of the button.

Type: FieldPosition object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

FormCTA

Describes the call to action button configuration for the form.

Contents

cancel

Displays a cancel button.

Type: FormButton object

Required: No

clear

Displays a clear button.

Type: FormButton object

Required: No

position

The position of the button.

Type: String

Valid Values: `top | bottom | top_and_bottom`

Required: No

submit

Displays a submit button.

Type: FormButton object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

FormDataTypeConfig

Describes the data type configuration for the data source associated with a form.

Contents

dataSourceType

The data source type, either an Amplify DataStore model or a custom data type.

Type: String

Valid Values: `DataStore | Custom`

Required: Yes

dataTypeName

The unique name of the data type you are using as the data source for the form.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

FormInputBindingPropertiesValue

Represents the data binding configuration for a form's input fields at runtime.You can use `FormInputBindingPropertiesValue` to add exposed properties to a form to allow different values to be entered when a form is reused in different places in an app.

Contents

bindingProperties

Describes the properties to customize with data at runtime.

Type: FormInputBindingPropertiesValueProperties object

Required: No

type

The property type.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

FormInputBindingPropertiesValueProperties

Represents the data binding configuration for a specific property using data stored in AWS. For AWS connected properties, you can bind a property to data stored in an Amplify DataStore model.

Contents

model

An Amplify DataStore model.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

FormInputValueProperty

Describes the configuration for an input field on a form. Use `FormInputValueProperty` to specify the values to render or bind by default.

Contents

bindingProperties

The information to bind fields to data at runtime.

Type: FormInputValuePropertyBindingProperties object

Required: No

concat

A list of form properties to concatenate to create the value to assign to this field property.

Type: Array of FormInputValueProperty objects

Required: No

value

The value to assign to the input field.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

FormInputValuePropertyBindingProperties

Associates a form property to a binding property. This enables exposed properties on the top level form to propagate data to the form's property values.

Contents

property

The form property to bind to the data field.

Type: String

Required: Yes

field

The data field to bind the property to.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

FormStyle

Describes the configuration for the form's style.

Contents

horizontalGap

The spacing for the horizontal gap.

Type: FormStyleConfig object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

outerPadding

The size of the outer padding for the form.

Type: FormStyleConfig object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

verticalGap

The spacing for the vertical gap.

Type: FormStyleConfig object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go

- AWS SDK for Java V2
- AWS SDK for Ruby V3

FormStyleConfig

Describes the configuration settings for the form's style properties.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

tokenReference

A reference to a design token to use to bind the form's style properties to an existing theme.

Type: String

Required: No

value

The value of the style setting.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

FormSummary

Describes the basic information about a form.

Contents

appId

The unique ID for the app associated with the form summary.

Type: String

Required: Yes

dataType

The form's data source type.

Type: FormDataTypeConfig object

Required: Yes

environmentName

The name of the backend environment that is part of the Amplify app.

Type: String

Required: Yes

formActionType

The type of operation to perform on the form.

Type: String

Valid Values: `create | update`

Required: Yes

id

The ID of the form.

Type: String

Required: Yes

name

The name of the form.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

GraphQLRenderConfig

Describes the GraphQL configuration for an API for a code generation job.

Contents

fragmentsFilePath

The path to the GraphQL fragments file, relative to the component output directory.

Type: String

Required: Yes

mutationsFilePath

The path to the GraphQL mutations file, relative to the component output directory.

Type: String

Required: Yes

queriesFilePath

The path to the GraphQL queries file, relative to the component output directory.

Type: String

Required: Yes

subscriptionsFilePath

The path to the GraphQL subscriptions file, relative to the component output directory.

Type: String

Required: Yes

typesFilePath

The path to the GraphQL types file, relative to the component output directory.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

MutationActionSetStateParameter

Represents the state configuration when an action modifies a property of another element within the same component.

Contents

componentName

The name of the component that is being modified.

Type: String

Required: Yes

property

The name of the component property to apply the state configuration to.

Type: String

Required: Yes

set

The state configuration to assign to the property.

Type: ComponentProperty object

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

NoApiRenderConfig

Describes the configuration for an application with no API being used.

Contents

The members of this exception structure are context-dependent.

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Predicate

Stores information for generating Amplify DataStore queries. Use a `Predicate` to retrieve a subset of the data in a collection.

Contents

and

A list of predicates to combine logically.

Type: Array of Predicate objects

Required: No

field

The field to query.

Type: String

Required: No

operand

The value to use when performing the evaluation.

Type: String

Required: No

operandType

The type of value to use when performing the evaluation.

Type: String

Pattern: `boolean|string|number`

Required: No

operator

The operator to use to perform the evaluation.

Type: String

Required: No

or

A list of predicates to combine logically.

Type: Array of Predicate objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

PutMetadataFlagBody

Stores the metadata information about a feature on a form.

Contents

newValue

The new information to store.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ReactStartCodegenJobData

Describes the code generation job configuration for a React project.

Contents

apiConfiguration

The API configuration for the code generation job.

Type: ApiConfiguration object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

dependencies

Lists the dependency packages that may be required for the project code to run.

Type: String to string map

Required: No

inlineSourceMap

Specifies whether the code generation job should render inline source maps.

Type: Boolean

Required: No

module

The JavaScript module type.

Type: String

Valid Values: `es2020 | esnext`

Required: No

renderTypeDeclarations

Specifies whether the code generation job should render type declaration files.

Type: Boolean

Required: No

script

The file type to use for a JavaScript project.

Type: String

Valid Values: `jsx | tsx | js`

Required: No

target

The ECMAScript specification to use.

Type: String

Valid Values: `es2015 | es2020`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

RefreshTokenRequestBody

Describes a refresh token.

Contents

token

The token to use to refresh a previously issued access token that might have expired.

Type: String

Required: Yes

clientId

The ID of the client to request the token from.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SectionalElement

Stores the configuration information for a visual helper element for a form. A sectional element can be a header, a text block, or a divider. These elements are static and not associated with any data.

Contents

type

The type of sectional element. Valid values are `Heading`, `Text`, and `Divider`.

Type: String

Required: Yes

excluded

Excludes a sectional element that was generated by default for a specified data model.

Type: Boolean

Required: No

level

Specifies the size of the font for a `Heading` sectional element. Valid values are `1 | 2 | 3 | 4 | 5 | 6`.

Type: Integer

Required: No

orientation

Specifies the orientation for a `Divider` sectional element. Valid values are `horizontal` or `vertical`.

Type: String

Required: No

position

Specifies the position of the text in a field for a `Text` sectional element.

Type: FieldPosition object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

text

The text for a `Text` sectional element.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SortProperty

Describes how to sort the data that you bind to a component.

Contents

direction

The direction of the sort, either ascending or descending.

Type: String

Valid Values: `ASC | DESC`

Required: Yes

field

The field to perform the sort on.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

StartCodegenJobData

The code generation job resource configuration.

Contents

renderConfig

The code generation configuration for the codegen job.

Type: CodegenJobRenderConfig object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

autoGenerateForms

Specifies whether to autogenerate forms in the code generation job.

Type: Boolean

Required: No

features

The feature flags for a code generation job.

Type: CodegenFeatureFlags object

Required: No

genericDataSchema

The data schema to use for a code generation job.

Type: CodegenJobGenericDataSchema object

Required: No

tags

One or more key-value pairs to use when tagging the code generation job data.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `(?!aws:)[a-zA-Z+-=._:/]+`

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Theme

A theme is a collection of style settings that apply globally to the components associated with an Amplify application.

Contents

appId

The unique ID for the Amplify app associated with the theme.

Type: String

Required: Yes

createdAt

The time that the theme was created.

Type: Timestamp

Required: Yes

environmentName

The name of the backend environment that is a part of the Amplify app.

Type: String

Required: Yes

id

The ID for the theme.

Type: String

Required: Yes

name

The name of the theme.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

values

A list of key-value pairs that defines the properties of the theme.

Type: Array of ThemeValues objects

Required: Yes

modifiedAt

The time that the theme was modified.

Type: Timestamp

Required: No

overrides

Describes the properties that can be overriden to customize a theme.

Type: Array of ThemeValues objects

Required: No

tags

One or more key-value pairs to use when tagging the theme.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `(?!aws:)[a-zA-Z+-=._:/]+`

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ThemeSummary

Describes the basic information about a theme.

Contents

appId

The unique ID for the app associated with the theme summary.

Type: String

Required: Yes

environmentName

The name of the backend environment that is part of the Amplify app.

Type: String

Required: Yes

id

The ID of the theme.

Type: String

Required: Yes

name

The name of the theme.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ThemeValue

Describes the configuration of a theme's properties.

Contents

children

A list of key-value pairs that define the theme's properties.

Type: Array of ThemeValues objects

Required: No

value

The value of a theme property.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ThemeValues

A key-value pair that defines a property of a theme.

Contents

key

The name of the property.

Type: String

Required: No

value

The value of the property.

Type: ThemeValue object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

UpdateComponentData

Updates and saves all of the information about a component, based on component ID.

Contents

bindingProperties

The data binding information for the component's properties.

Type: String to ComponentBindingPropertiesValue object map

Required: No

children

The components that are instances of the main component.

Type: Array of ComponentChild objects

Required: No

collectionProperties

The configuration for binding a component's properties to a data model. Use this for a collection component.

Type: String to ComponentDataConfiguration object map

Required: No

componentType

The type of the component. This can be an Amplify custom UI component or another custom component.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

events

The event configuration for the component. Use for the workflow feature in Amplify Studio that allows you to bind events and actions to components.

Type: String to ComponentEvent object map

Required: No

id

The unique ID of the component to update.

Type: String

Required: No

name

The name of the component to update.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

overrides

Describes the properties that can be overriden to customize the component.

Type: String to string to string map map

Required: No

properties

Describes the component's properties.

Type: String to ComponentProperty object map

Required: No

schemaVersion

The schema version of the component when it was imported.

Type: String

Required: No

sourceId

The unique ID of the component in its original source system, such as Figma.

Type: String

Required: No

variants

A list of the unique variants of the main component being updated.

Type: Array of ComponentVariant objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

UpdateFormData

Updates and saves all of the information about a form, based on form ID.

Contents

cta

The `FormCTA` object that stores the call to action configuration for the form.

Type: FormCTA object

Required: No

dataType

The type of data source to use to create the form.

Type: FormDataTypeConfig object

Required: No

fields

The configuration information for the form's fields.

Type: String to FieldConfig object map

Required: No

formActionType

Specifies whether to perform a create or update action on the form.

Type: String

Valid Values: `create | update`

Required: No

labelDecorator

Specifies an icon or decoration to display on the form.

Type: String

Valid Values: `required | optional | none`

Required: No

name

The name of the form.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

schemaVersion

The schema version of the form.

Type: String

Required: No

sectionalElements

The configuration information for the visual helper elements for the form. These elements are not associated with any data.

Type: String to SectionalElement object map

Required: No

style

The configuration for the form's style.

Type: FormStyle object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++

- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

UpdateThemeData

Saves the data binding information for a theme.

Contents

values

A list of key-value pairs that define the theme's properties.

Type: Array of ThemeValues objects

Required: Yes

id

The unique ID of the theme to update.

Type: String

Required: No

name

The name of the theme to update.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

overrides

Describes the properties that can be overriden to customize the theme.

Type: Array of ThemeValues objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ValueMapping

Associates a complex object with a display value. Use `ValueMapping` to store how to represent complex objects when they are displayed.

Contents

value

The complex object.

Type: FormInputValueProperty object

Required: Yes

displayValue

The value to display for the complex object.

Type: FormInputValueProperty object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ValueMappings

Represents the data binding configuration for a value map.

Contents

values

The value and display value pairs.

Type: Array of ValueMapping objects

Required: Yes

bindingProperties

The information to bind fields to data at runtime.

Type: String to FormInputBindingPropertiesValue object map

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Common Parameters

The following list contains the parameters that all actions use for signing Signature Version 4 requests with a query string. Any action-specific parameters are listed in the topic for that action. For more information about Signature Version 4, see Signing AWS API requests in the *IAM User Guide*.

Action

The action to be performed.

Type: string

Required: Yes

Version

The API version that the request is written for, expressed in the format YYYY-MM-DD.

Type: string

Required: Yes

X-Amz-Algorithm

The hash algorithm that you used to create the request signature.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Valid Values: `AWS4-HMAC-SHA256`

Required: Conditional

X-Amz-Credential

The credential scope value, which is a string that includes your access key, the date, the region you are targeting, the service you are requesting, and a termination string ("aws4_request"). The value is expressed in the following format: *access_key*/*YYYYMMDD*/*region*/*service*/aws4_request.

For more information, see Create a signed AWS API request in the *IAM User Guide*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

X-Amz-Date

The date that is used to create the signature. The format must be ISO 8601 basic format (YYYYMMDD'T'HHMMSS'Z'). For example, the following date time is a valid X-Amz-Date value: `20120325T120000Z`.

Condition: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is not required. When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see Elements of an AWS API request signature in the *IAM User Guide*.

Type: string

Required: Conditional

X-Amz-Security-Token

The temporary security token that was obtained through a call to AWS Security Token Service (AWS STS). For a list of services that support temporary security credentials from AWS STS, see AWS services that work with IAM in the *IAM User Guide*.

Condition: If you're using temporary security credentials from AWS STS, you must include the security token.

Type: string

Required: Conditional

X-Amz-Signature

Specifies the hex-encoded signature that was calculated from the string to sign and the derived signing key.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

X-Amz-SignedHeaders

Specifies all the HTTP headers that were included as part of the canonical request. For more information about specifying signed headers, see Create a signed AWS API request in the *IAM User Guide*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

Common Errors

This section lists the errors common to the API actions of all AWS services. For errors specific to an API action for this service, see the topic for that API action.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ExpiredTokenException

The security token included in the request is expired

HTTP Status Code: 403

IncompleteSignature

The request signature does not conform to AWS standards.

HTTP Status Code: 403

InternalFailure

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

MalformedHttpRequestException

Problems with the request at the HTTP level, e.g. we can't decompress the body according to the decompression algorithm specified by the content-encoding.

HTTP Status Code: 400

NotAuthorized

You do not have permission to perform this action.

HTTP Status Code: 401

OptInRequired

The AWS access key ID needs a subscription for the service.

HTTP Status Code: 403

RequestAbortedException

Convenient exception that can be used when a request is aborted before a reply is sent back (e.g. client closed connection).

HTTP Status Code: 400

RequestEntityTooLargeException

Problems with the request at the HTTP level. The request entity is too large.

HTTP Status Code: 413

RequestExpired

The request reached the service more than 15 minutes after the date stamp on the request or more than 15 minutes after the request expiration date (such as for pre-signed URLs), or the date stamp on the request is more than 15 minutes in the future.

HTTP Status Code: 400

RequestTimeoutException

Problems with the request at the HTTP level. Reading the Request timed out.

HTTP Status Code: 408

ServiceUnavailable

The request has failed due to a temporary failure of the server.

HTTP Status Code: 503

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 400

UnrecognizedClientException

The X.509 certificate or AWS access key ID provided does not exist in our records.

HTTP Status Code: 403

UnknownOperationException

The action or operation requested is invalid. Verify that the action is typed correctly.

HTTP Status Code: 404

ValidationError

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400