7/31/2020 Promise Object

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SuiteCloud Platform

SuiteScript

SuiteScript 2.0 API Reference

SuiteScript 2.0 Global Objects

Promise Object

Note: The content in this help topic pertains to SuiteScript 2.0.

In SuiteScript 2.0, all client scripts support the use of Promises. With Promises, developers can write asynchronous code that is intuitive and efficient. SuiteScript 2.0 provides promise APIs for selected modules (see SuiteScript 2.0 Promise APIs). In addition, you can create custom Promises in all client scripts (see Custom Promises).

A promise is a JavaScript object that represents the eventual result of an asynchronous process. After this object is created, it serves as a placeholder for the future success or failure of the operation. During the period of time that the promise object is waiting, the remaining segments of the script can execute.

A Promise holds one of the following values:

- fulfilled The operation is successful.
- rejected The operation failed.
- · pending The operation is still in progress and has not yet been fulfilled or rejected.

When it is first created, a Promise holds the value pending. After the associated process is complete (from success or failure), the value changes to fulfilled or rejected. A success or failure callback function attached to the Promise is called when the process is complete. Note that a Promise can only succeed or fail one time. When the value of the Promise updates to fulfilled or rejected, it cannot change.

For additional information regarding Promises, see https://www.promisejs.org/.

SuiteScript 2.0 Promise APIs

SuiteScript 2.0 provides client-side promise APIs. For supported modules members and additional API information, see SuiteScript 2.0 Modules.

Important: Although these modules as a whole are supported in client and server-side scripts, their promise APIs are supported only in client scripts.

The available promise APIs are named so that they correspond with their synchronous counterparts. The distinction is that the promise APIs have names that are suffixed with .promise. For example, the search.create(options) API has a promise version named search.create.promise(options).

The following is a basic example of how to use a promise API in a client script.

```
* @NAPIVersion 2.0
define(['N/search'],
    function(search)
         function doSomething()
              search.create.promise({
                   type: 'salesorder'
              })
              .then(function(result) {
                   log.debug("Completed: " + result);
                   //do something after completion
              })
              .catch(function(reason) {
                   log.debug("Failed: " + reason)
                   //do something on failure
              });
         }
         return
              pageInit: doSomething
```

Ask a Question



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This example demonstrates how to chain promises created with promise APIs.

```
* @NAPIVersion 2.0
*/
define(['N/search'],
     function(search)
     {
         function doSomething()
              var filter = search.createFilter({
                   name: 'mainline',
                   operator: search.Operator.IS,
                   values:['T']
              });
              {\tt search.create.promise} (\{
                   type: 'salesorder',
                   filters:[filter]
              })
              .then(function(searchObj) {
                   return searchObj.run().each.promise(
                        function(result, index){
                        //do something
                   })
              })
              .then(function(result) {
                   log.debug("Completed: " + result)
                   //do something after completion
              })
              .catch(function(reason) {
                   log.debug("Failed: " + reason)
                   //do something on failure
              });
         })
         return
              pageInit: doSomething
     }
 Copy
```

Custom Promises

The following example shows a custom Promise. Custom Promises do not utilize the SuiteScript 2.0 promise APIs.

```
* @NAPIVersion 2.0
*/
define(function(){
    function doSomething(addresses){
         var promise = new Promise(function(resolve, reject){
                  var url = 'https://your.favorite.maps/api/directions?start=' + addresses.start + '&end=' + addresses.end,
                       isAsync = true,
                       xhr = new XMLHttpRequest();
                  xhr.addEventListener('load', function (event) {
                       if (xhr.readyState === 4) {
                            if (xhr.status === 200) {
                                resolve(xhr.responseText );
                            }
                            else {
                                reject( xhr.statusText );
                            }
                        }
                  });
                  xhr.addEventListener('error', function (event) {
                       reject( xhr.statusText );
```

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