**Simple Example to Get Started**

**SUITESCRIPT 1.0**

The content in this help topic pertains to SuiteScript 1.0. If you are interested in the latest APIs, check out [SuiteScript 2.0 API Introduction](https://system.na1.netsuite.com/app/help/helpcenter.nl?topic=DOC_SS2_API) and [SuiteScript 1.0 to SuiteScript 2.0 API Map](https://system.na1.netsuite.com/app/help/helpcenter.nl?topic=DOC_SS2_MAPPING).

Use the following example as a very basic GET method test when you are getting started with RESTlets:

**function** sayhi()

{

**var** o = **new** Object();

o.sayhi = **'Hello World! '**;

**return** o;

}

**Example Code Snippets of HTTP Methods**

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The following code snippets provide examples of RESTlet functions.

**GET Method**

*// Get a standard NetSuite record*

function getRecord(datain)

{

**return** nlapiLoadRecord(datain.recordtype, datain.id); *// e.g recordtype="customer", id=769*

}

Query parameters:

recordtype=customer&**id**=769

**POST Method**

*// Create a standard NetSuite record*

function createRecord(datain)

{

**var** err = **new** Object();

*// Validate if mandatory record type is set in the request*

**if** (!datain.recordtype)

{

err.status = **"failed"**;

err.message= **"missing recordtype"**;

**return** err;

}

**var** record = nlapiCreateRecord(datain.recordtype);

**for** (**var** fieldname **in** datain)

{

**if** (datain.hasOwnProperty(fieldname))

{

**if** (fieldname != **'recordtype'** && fieldname != **'id'**)

{

**var** **value** = datain[fieldname];

**if** (**value** && **typeof** **value** != **'object'**) *// ignore other type of parameters*

{

record.setFieldValue(fieldname, **value**);

}

}

}

}

**var** recordId = nlapiSubmitRecord(record);

nlapiLogExecution(**'DEBUG'**,**'id='**+recordId);

**var** nlobj = nlapiLoadRecord(datain.recordtype,recordId);

**return** nlobj;

}

Request Payload:

{"**recordtype**":**"customer"**,"**entityid**":**"John Doe"**,"**companyname**":**"ABCTools Inc"**,"**subsidiary**":**"1"**,"**email**":**"jdoe@email.com"**}

**DELETE Method**

*// Delete a standard NetSuite record*

**function** deleteRecord(datain)

{

nlapiDeleteRecord(datain.recordtype, datain.id); *// e.g recordtype="customer", id="769"*

}

Query parameters:

recordtype=**customer&id=**769

**Example RESTlet Request Using nlapiRequestURL**

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function credentials(){

**this**.email = **"msmith@email.com"**;

**this**.account = **"1234567"**;

**this**.role = **"3"**;

**this**.password = **"\*\*\*\*\*"**;

}

function replacer(key, **value**){

**if** (**typeof** **value** == **"number"** && !isFinite(**value**)){

**return** String(**value**);

}

**return** **value**;

}

*//Setting up URL*

**var** url = **"https://rest.netsuite.com/app/site/hosting/restlet.nl?script=260&deploy=1"**;

*//Calling credential function*

**var** cred = **new** credentials();

*//Setting up Headers*

**var** headers = {**"User-Agent-x"**: **"SuiteScript-Call"**,

**"Authorization"**: **"NLAuth nlauth\_account="** + cred.account + **", nlauth\_email="** + cred.email +

**", nlauth\_signature= "** + cred.password + **", nlauth\_role="** + cred.role,

**"Content-Type"**: **"application/json"**};

*//Setting up Datainput*

**var** jsonobj = {**"recordtype"**: **"customer"**,

**"entityid"**: **"John Doe"**,

**"companyname"**: **"ABC Company"**,

**"subsidiary"**: **"1"**,

**"email"**: **"jdoe@email.com"**}

*//Stringifying JSON*

**var** myJSONText = JSON.stringify(jsonobj, replacer);

**var** response = nlapiRequestURL(url, myJSONText, headers);

*//Below is being used to put a breakpoint in the debugger*

**var** i=0;

*//\*\*\*\*\*\*\*\*\*\*\*\*\*\*RESTLET Code\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\**

*// Create a standard NetSuite record*

function createRecord(datain)

{

**var** err = **new** Object();

*// Validate if mandatory record type is set in the request*

**if** (!datain.recordtype)

{

err.status = **"failed"**;

err.message = **"missing recordtype"**;

**return** err;

}

**var** record = nlapiCreateRecord(datain.recordtype);

**for** (**var** fieldname **in** datain)

{

**if** (datain.hasOwnProperty(fieldname))

{

**if** (fieldname != **'recordtype'** && fieldname != **'id'**)

{

**var** **value** = datain[fieldname];

**if** (**value** && **typeof** **value** != **'object'**) *// ignore other type of parameters*

{

record.setFieldValue(fieldname, **value**);

}

}

}

}

**var** recordId = nlapiSubmitRecord(record);

nlapiLogExecution(**'DEBUG'**,**'id='**+recordId);

**var** nlobj = nlapiLoadRecord(datain.recordtype,recordId);

**return** nlobj;

}

**Sample RESTlet Input Formats**

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**Sales Order Record Format**

**JSON**

{

"**total**":64.04,

"**altshippingcost**":5.67,

"**taxtotal**":4.45,

"**tranid**":**"120"**,

"**orderstatus**":**"E"**,

"**shipcomplete**":**false**,

"**discounttotal**":0.00,

"**entity**":**"76"**,

"**billaddress**":**"Doug Fabre\r\nChess\r\nChess Art Gallery\r\n150 N Ocean Dr\r\nMonterey CA 93940"**,

"**salesrep**":**"-5"**,

"**ccapproved**":**false**,

"**linkedtrackingnumbers**":[**"1Z6753YA0394527573"**,**"1Z6753YA0394249981"**],

"**shipmethod**":**"92"**,

"**exchangerate**":1.00

**"lastmodifieddate"**:**"1/9/2011 11:34 pm"**,

"**taxrate**":**"8.25%"**,

"**id**":**"769"**,

"**shipaddresslist**":**"55"**,

"**istaxable**":**true**,

"**tobefaxed**":**false**,

"**altsalestotal**":0.00,

"**getauth**":**false**,

"**tobeprinted**":**false**,

"**shippingcost**":5.67,

"**recordtype**":**"salesorder"**,

"**trandate**":**"10/14/2006"**,

"**fax**":**"831-555-5230"**,

"**customform**":**"88"**,

"**links**":

[

{"**trandate**":**"10/14/2006"**,"**tranid**":**"8"**,"**type**":**"Item Fulfillment"**,"**linktype**":**"Receipt/Fulfillment"**}

],

"**taxitem**":**"-112"**,

"**custbody1**":**"831-555-5229"**,

"**custbody2**":**"Do not leave the item outside the house"**,

"**shipdate**":**"10/14/2006"**,

"**createddate**":**"10/14/2006 2:58 pm"**,

"**subtotal**":53.92,

"**currencyname**":**"USA"**,

"**revenuestatus**":**"A"**,

"**saleseffectivedate**":**"10/14/2006"**,

"**email**":chessart@christyscatering.com,

"**item**":

[

{

"**isclosed**":**false**,"**fromjob**":**false**,"**amount**":8.96,"**rate**":8.96,"**price**":**"2"**,

"**istaxable**":**"T"**,"**description**":**"10 ft Serial Cable DB25M DB25F"**,

"**custcol6**":429,"**custcol7**":2.5,

"**item**":**"46"**,"**quantity**":1,"**isestimate**":**false**,"**commitinventory**":**"1"**,

"**options**":

{

"**CUSTCOL3**":792,"**CUSTCOL1**":4

}

},

{

"**isclosed**":**false**,"**fromjob**":**false**,"**amount**":44.96,"**rate**":44.96,"**price**":**"2"**,

"**istaxable**":**true**,

"**item**":**"80"**,"**quantity**":1,"**isestimate**":**false**,"**commitinventory**":**"1"**

}

],

"**excludecommission**":**false**,

"**shipaddress**":**"Chess\r\nChess Art Gallery\r\n150 N Ocean Dr\r\nMonterey CA 93940"**,"**tobeemailed**":**false**

}

**Customer Record Format**

**JSON**

{

**"shipcomplete"**:**false**,

**"giveaccess"**:**false**,

**"globalsubscriptionstatus"**:**"1"**,

**"isperson"**:**false**,

... more body fields...,

**"consoldepositbalance"**:0.00,

**"entityid"**:**"John Doe"**,

**"addressbook"**:

[

{**"zip"**:**"94404"**,**"phone"**:**"650-627-1000"**},

{**"zip"**:**"94403"**,**"phone"**:**"650-627-1001"**}

],

**"consoloverduebalance"**:0.00,

**"overduebalance"**:0.00,

**"creditholdoverride"**:**"AUTO"**,

**"resubscribelink"**:**"Send Subscription Email"**

}

**XML**

<**shipcomplete**>F</**shipcomplete**>

<**globalsubscriptionstatus**>1</**globalsubscriptionstatus**>

<**giveaccess**>F</**giveaccess**>

<**isperson**>F</**isperson**>

<**datecreated**>12/19/2010 10:26 pm</**datecreated**>

<**salesrep**>-5</**salesrep**><**currency**>1</**currency**>

<**lastmodifieddate**>12/20/2010 10:14 am</**lastmodifieddate**>

<**id**>1185</**id**>

<**emailtransactions**>F</**emailtransactions**>

<**balance**>0.00</**balance**>

<**entitystatus**>13</**entitystatus**>

<**isbudgetapproved**>F</**isbudgetapproved**>

... more fields...

<**entityid**>John Doe</**entityid**>

<**isinactive**>F</**isinactive**>

<**addressbook**>

<**zip**>94404</**zip**>

<**phone**>650-627-1000</**phone**>

<**defaultshipping**>T</**defaultshipping**>

<**addrtext**>Netsuite100 Mission StreetFoster City CA 94404United States</**addrtext**>

<**state**>CA</**state**>

<**addressee**>Netsuite</**addressee**>

<**isresidential**>F</**isresidential**>

<**label**>Home</**label**>

<**city**>Foster City</**city**>

<**country**>US</**country**>

<**displaystate**>California</**displaystate**>

<**dropdownstate**>CA</**dropdownstate**>

<**addr1**>100 Mission Street</**addr1**>

<**override**>F</**override**>

<**defaultbilling**>T</**defaultbilling**>

</**addressbook**>

<**addressbook**>

<**zip**>94403</**zip**>

<**phone**>650-627-1001</**phone**>

<**defaultshipping**>F</**defaultshipping**>

<**addrtext**>Netsuite2955 Campus DriveSan Mateo CA 94403United States</**addrtext**>

<**state**>CA</**state**>

<**addressee**>Netsuite</**addressee**>

<**isresidential**>F</**isresidential**>

<**label**>Work</**label**>

<**city**>San Mateo</**city**>

<**country**>US</**country**>

<**displaystate**>California</**displaystate**>

<**dropdownstate**>CA</**dropdownstate**>

<**addr1**>2955 Campus Drive</**addr1**>

<**override**>F</**override**>

<**defaultbilling**>F</**defaultbilling**>

</**addressbook**>

**RESTlet Status Codes and Error Message Formats**

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For details about RESTlet errors, see:

• [Success Code](https://system.na1.netsuite.com/app/help/helpcenter.nl?fid=section_N2982984.html#bridgehead_N2983096)

• [Error Codes](https://system.na1.netsuite.com/app/help/helpcenter.nl?fid=section_N2982984.html#bridgehead_N2983127)

• [Notes about RESTlet Errors](https://system.na1.netsuite.com/app/help/helpcenter.nl?fid=section_N2982984.html#bridgehead_N2983334)

• [Error Message Formatting](https://system.na1.netsuite.com/app/help/helpcenter.nl?fid=section_N2982984.html#bridgehead_N2983404)

• [Error for Incorrect URL](https://system.na1.netsuite.com/app/help/helpcenter.nl?fid=section_N2982984.html#bridgehead_N2983458)

**Success Code**

RESTlets support the following HTTP success code:

**• 200 OK:** The RESTlet request was executed successfully.  
The actual response depends on the request method used. For a GET request, the response contains an entity corresponding to the requested resource. For a POST request the response contains an entity describing or containing the result of the action

**Error Codes**

RESTlets support the following HTTP error codes:

**• 302 Moved Temporarily:** The request was sent to a different data center than the data center in which your company’s account resides. When you receive a 302 response, you must recalculate the signature on the request to the correct data center, because the signature is also computed from URL.

**• 400 BAD\_REQUEST:** The RESTlet request failed with a user error.

**• 401 UNAUTHORIZED:** There is not a valid NetSuite login session for the RESTlet calls.

**• 403 FORBIDDEN:** RESTlet request sent to invalid domain, meaning a domain other than https://rest.netsuite.com.

**• 404 NOT\_FOUND:** A RESTlet script is not defined in the RESTlet request.

**• 405 METHOD\_NOT\_ALLOWED:** The RESTlet request method is not valid.

**• 415 UNSUPPORTED\_MEDIA\_TYPE:** An unsupported content type was specified. (Only JSON and text are allowed.)

**• 500 INTERNAL\_SERVER\_ERROR (unexpected errors):** Occurs for non-user errors that cannot be recovered by resubmitting the same request.  
If this type of error occurs, contact Customer Support to file a case.

**• 503 SERVICE\_UNAVAILABLE:** The NetSuite database is offline or a database connection is not available.

For additional information about HTTP status codes, see <http://www.w3schools.com/tags/ref_httpmessages.asp>

**Notes about RESTlet Errors**

• Any errors encountered at run time that are unhandled return a 400 error. If the user code catches the error, a 200 error is returned.

• An unexpected error is returned with an error ID, for example:  
Code = **UNEXPECTED\_ERROR**

• Msg = **An unexpected error occurred. Error ID: fevsjhv41tji2juy3le73**

• An INVALID\_REQUEST error is returned due to malformed syntax in the OAuth header. For example, when the signature method, version, or timestamp parameters are rejected.

• An INVALID\_LOGIN\_ATTEMPT error is returned when the nonce, consumer key, token, or signature in the OAuth header is invalid.

• The DELETE method is not expected to return anything. In this case, the message is returned:  
 Return was ignored **in** DELETE operation.

• If users specify a content type other than JSON or TEXT, a 415 error is returned with the following message:  
Invalid content type. You can only **use** application/json, application/**xml** **or** text/plain **with** RESTlets.

• If users provide data in a format different from specified type, the following error is returned with one of the following messages:

Error code = INVALID\_RETURN\_DATA\_FORMAT

Error message = Invalid data format. You should **return** TEXT.

Error message = Invalid data format. You should **return** a JavaScript object.

**Error Message Formatting**

The following examples show RESTlet error message formatting for JSON and text content types.

**JSON**

{

"**error**":

{

"**code**":**"SSS\_INVALID\_SCRIPTLET\_ID"**,

"**message**":**"That Suitelet is invalid, disabled, or no longer exists."**

}

}

**XML**

<**error**>

<**code**>SSS\_INVALID\_SCRIPTLET\_ID</**code**>

<**message**>That Suitelet is invalid, disabled, or no longer exists.</**message**>

</**error**>

**Text**

<error code: SSS\_INVALID\_SCRIPTLET\_ID

error message: That Suitelet is invalid, disabled, **or** **no** longer **exists**.

**Error for Incorrect URL**

If you receive the following error, make sure that the URL is correct and that it points to the correct RESTlet script ID.

SSS\_INVALID\_SCRIPTLET\_ID: That Suitelet is invalid, disabled, **or** **no** longer **exists**.