

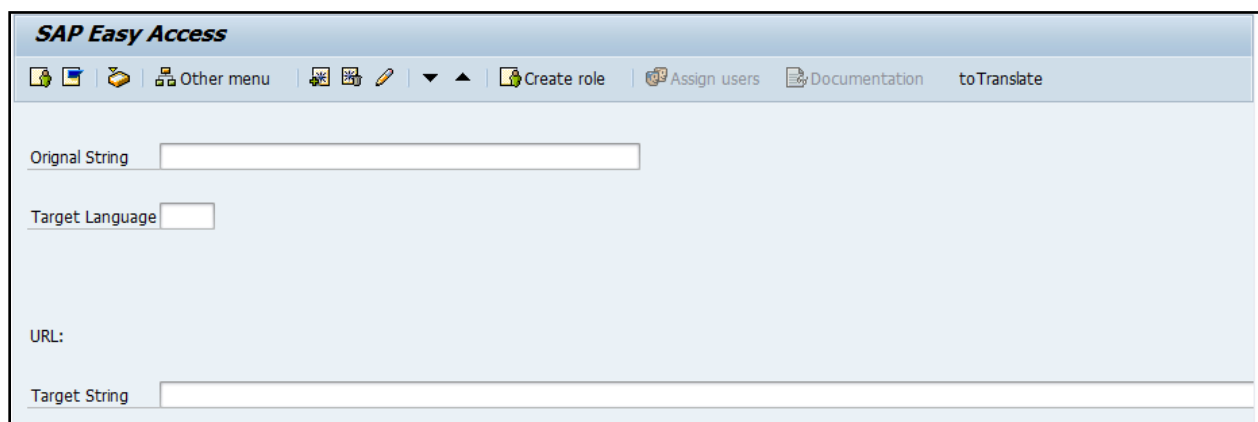
Liquid UI: WSCurl Translate Language

Purpose

Using WSCurl, input text in a non-Western language and then use a service such as Google Translate to change the text into English or some other language.

User Interface

Log into SAP and on the SAP Easy Access Screen click on the 'toTranslate' TOOLBAR pushbutton after entering Original String and Target Language.



The screenshot displays the 'SAP Easy Access' interface. At the top, a toolbar contains several icons and buttons: a home icon, a document icon, a folder icon, a button labeled 'Other menu', a button with a document and pencil icon, a dropdown arrow, a button labeled 'Create role', a button labeled 'Assign users', a button labeled 'Documentation', and a button labeled 'toTranslate'. Below the toolbar, the main area is light blue and contains the following fields:

- 'Original String' with a text input field.
- 'Target Language' with a dropdown menu.
- 'URL:' with a text input field.
- 'Target String' with a text input field.

Liquid UI Code [Script]

User Interface file –

```
SAPLSMTR_NAVIGATION.E0100.sjs
1  load('wscurl');
2
3  // Function to check if the string value is blank
4  function isBlank(jvar){
5      if (jvar==void 0 || jvar==" " || jvar==null) {
6          return true;
7      }
8      else {
9          return false;
10     }
11 }
12
13 /* Function is used to input text in a non-Western language and then use a service
14    such as Google Translate to change the text into English or some other language */
15 function translate(param){
16     var z_text = param.toTranslate;
17     var z_language = param.targetLang;
18
19     /* Initialize the Curl object for making the call*/
20     var wsCurl = new Curl();
21
22     /* Fixed string to fetch data after translation from googleapis.com*/
23     var baseURL = "https://www.googleapis.com/language/translate/v2?key=AIzaSyChzKkNGfmuBAhZXPd7Pw-1n14e0c6shNw&q=";
24
25     /* Say the text you want to convert is stored in variable "z_text", lets covert it to URI for web*/
26     var textToConvert = encodeURIComponent(z_text);
27
28     /* Set source language identifier*/
29     var sourceLangIdentifier = "&source=";
30
31     /* Set source language (see language format below)*/
32     var sourceLang = "en";
33
34     /* Set translation language identifier*/
35     var translateLangIdentifier = "&target=";
36
37     /* Set translation language (see language format below)*/
38     var translateLang = z_language;
```

```
40  /* LANGUAGE FORMAT:
41  * google.language.Languages:
42  *
43  * 'AFRIKAANS' : 'af',
44  * 'ALBANIAN' : 'sq',
45  * 'AMHARIC' : 'am',
46  * 'ARABIC' : 'ar',
47  * 'ARMENIAN' : 'hy',
48  * 'AZERBAIJANI' : 'az',
49  * 'BASQUE' : 'eu',
50  * 'BELARUSIAN' : 'be',
51  * 'BENGALI' : 'bn',
52  * 'BIHARI' : 'bh',
53  * 'BULGARIAN' : 'bg',
54  * 'BURMESE' : 'my',
55  * 'CATALAN' : 'ca',
56  * 'CHEROKEE' : 'chr',
57  * 'CHINESE' : 'zh',
58  * 'CHINESE_SIMPLIFIED' : 'zh-CN',
59  * 'CHINESE_TRADITIONAL' : 'zh-TW',
60  * 'CROATIAN' : 'hr',
61  * 'CZECH' : 'cs',
62  * 'DANISH' : 'da',
63  * 'DHIVEHI' : 'dv',
64  * 'DUTCH' : 'nl',
65  * 'ENGLISH' : 'en',
66  * 'ESPERANTO' : 'eo',
67  * 'ESTONIAN' : 'et',
68  * 'FILIPINO' : 'tl',
69  * 'FINNISH' : 'fi',
70  * 'FRENCH' : 'fr',
71  * 'GALICIAN' : 'gl',
72  * 'GEORGIAN' : 'ka',
73  * 'GERMAN' : 'de',
74  * 'GREEK' : 'el',
75  * 'GUARANI' : 'gn',
76  * 'GUJARATI' : 'gu',
77  * 'HEBREW' : 'iw',
78  * 'HINDI' : 'hi',
79  * 'HUNGARIAN' : 'hu',
80  * 'ICELANDIC' : 'is',
81  * 'INDONESIAN' : 'id',
82  * 'INUKTITUT' : 'iu',
83  * 'ITALIAN' : 'it',
84  * 'JAPANESE' : 'ja',
85  * 'KANNADA' : 'kn',
```

86	* 'KAZAKH' : 'kk',
87	* 'KHMER' : 'km',
88	* 'KOREAN' : 'ko',
89	* 'KURDISH' : 'ku',
90	* 'KYRGYZ' : 'ky',
91	* 'LAOTHIAN' : 'lo',
92	* 'LATVIAN' : 'lv',
93	* 'LITHUANIAN' : 'lt',
94	* 'MACEDONIAN' : 'mk',
95	* 'MALAY' : 'ms',
96	* 'MALAYALAM' : 'ml',
97	* 'MALTESE' : 'mt',
98	* 'MARATHI' : 'mr',
99	* 'MONGOLIAN' : 'mn',
100	* 'NEPALI' : 'ne',
101	* 'NORWEGIAN' : 'no',
102	* 'ORIYA' : 'or',
103	* 'PASHTO' : 'ps',
104	* 'PERSIAN' : 'fa',
105	* 'POLISH' : 'pl',
106	* 'PORTUGUESE' : 'pt-PT',
107	* 'PUNJABI' : 'pa',
108	* 'ROMANIAN' : 'ro',
109	* 'RUSSIAN' : 'ru',
110	* 'SANSKRIT' : 'sa',
111	* 'SERBIAN' : 'sr',
112	* 'SINDHI' : 'sd',
113	* 'SINHALESE' : 'si',
114	* 'SLOVAK' : 'sk',
115	* 'SLOVENIAN' : 'sl',
116	* 'SPANISH' : 'es',
117	* 'SWAHILI' : 'sw',
118	* 'SWEDISH' : 'sv',
119	* 'TAJIK' : 'tg',
120	* 'TAMIL' : 'ta',
121	* 'TAGALOG' : 'tl',
122	* 'TELUGU' : 'te',
123	* 'THAI' : 'th',
124	* 'TIBETAN' : 'bo',
125	* 'TURKISH' : 'tr',
126	* 'UKRAINIAN' : 'uk',
127	* 'URDU' : 'ur',
128	* 'UZBEK' : 'uz',
129	* 'UIGHUR' : 'ug',
130	* 'VIETNAMESE' : 'vi',

```

131     * 'UNKNOWN' : ''
132     */
133
134     /* Build the URL to make a call*/
135     var completeURL = baseURL + textToConvert + sourceLangIdentifier + sourceLang + translateLangIdentifier + translateLang;
136     set("V[g_URL]",completeURL);
137     /* This is the URL for your translation request. Note this use is for
138     * calls made to Google Translate which returns us the JSON object in string */
139     wsCurl_setopt(Curl.CURLOPT_URL, completeURL);
140
141     /* Final step is to call execute to dispatch email. You can check the return
142     * code to avoid errata string which can be found from "wsCurl.error"
143     * return value 0 means success */
144     var response = wsCurl.exec();
145     var error = wsCurl.error;
146     posStart = response.lastIndexOf(":") + 2;
147     posEnd = response.lastIndexOf("\"") + 1;
148     strTranslated = response.substring(posStart,posEnd);
149
150     set("V[g_translated]", strTranslated);
151
152     /* Response of THIS particular query is JSON. You can get HTML for other URLs
153     * Parse to suite your requirements
154     * e.g. response from the ABOVE URL is JSON string which looks like
155     * {
156     *   "data": {
157     *     "translations": [
158     *       {
159     *         "translatedText": "Bonjour tout le monde"
160     *       }
161     *     ]
162     *   }
163     * }
164     */
165
166     /* Close the http connection for the URL fetch*/
167     wsCurl.close();
168
169     /* Remove any reference for Garbage Collection*/
170     wsCurl= NULL;
171 }
172
173 // User Interface
174 clearscreen();
175 inputfield([1,1], "Original String", [1,15], {"name":"g_source1", "size":50});

```

```

176 inputfield([3,1], "Target Language", [3,15], {"name":"g_language1", "size":5});
177 if(isBlank(g_URL)){
178     g_URL = "";
179 }
180 text([7,1], "URL: " + "%V[g_URL]" );
181 if(isBlank(g_translated)){
182     g_translated = "";
183 }
184 inputfield([9,1], "Target String", [9,15], {"name":"g_translated", "size":200});
185 pushbutton([TOOLBAR], 'toTranslate', '?',{ "process":translate, "using":{"toTranslate":g_source1,"targetLang":g_language1}});

```