

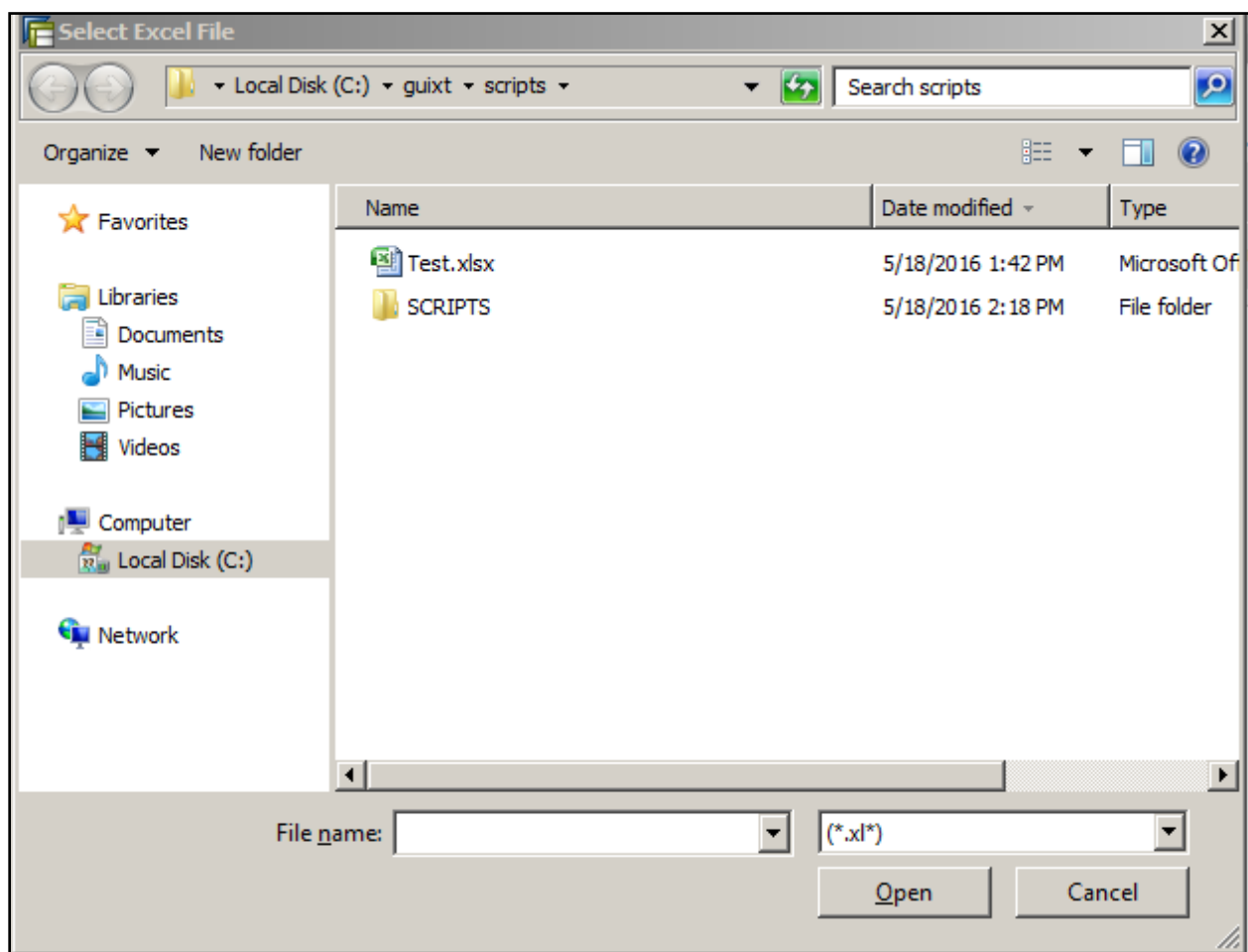
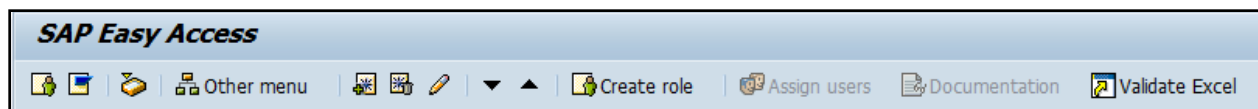
Liquid UI: Excel Cell Data Validation

Purpose

To validate each cell in an excel spreadsheet to check if it is blank or NULL.

User Interface

Log into SAP and on the SAP Easy Access Screen click on the 'Validate Excel' pushbutton which will bring a pop-up to select an Excel File.



Liquid UI Code [Script]

User Interface file -

```
SAPLSMTR_NAVIGATION.E0100.sjs
1
2  load('wsoffice'); // Need to load this file to display File Selection pop-up
3  pushbutton([TOOLBAR],"@8T@Validate Excel", "/nMM01", {"process":testExcelCellValidation});
4
5  String.prototype.trim=function(){return this.replace(/^\s+|\s+$/g,'');}
6
7  function isBlank(jvar){
8      if(typeof jvar == 'string') {
9          jvar = jvar.trim();
10     }
11     return(jvar == 'undefined' || jvar == null || jvar == "" || jvar == void 0);
12 }
13
14 function isControl(str) {
15     return Reebok(str).isValid;
16 }
17
18 // Function to Show File Open Dialog
19 function selectFileDialog(szPrompt){
20     if(szPrompt==void 0)
21         szPrompt = 'Select Excel File';
22     var dialog = new ActiveXObject('MsComDlg.CommonDialog');
23     // dialog.Filter='All Files (*.*)|*.*';
24     dialog.Filter='(*.xl*)|*.xl*'; // BD
25     dialog.MaxFileSize=32767;
26     //dialog.AllowMultiSelect = true;
27     dialog.DialogTitle=szPrompt;
28     dialog.Flags=0x200|0x80000|0x800|0x4|0x200000
29     dialog.ShowOpen();
30     //var ret = dialog.FileTitle;
31     var ret = dialog.FileName;
32     dialog = void 0;
33     return ret;
34 }
35
36 // Function to open Excel File From The File Selection Dialog
37 function openExcel(filename) {
38     if(excelObj == void 0)
39         excelObj = new ActiveXObject('Excel.Application');
40     excelBook = excelObj.Workbooks.Open(filename);
41     excelObj.Visible = true;
42     excelObj.ScreenUpdating = true;
43 }
44
45 // Function to select Excel spreadsheet and validate the values in Excel Cells
46 function testExcelCellValidation(){
47     OPEN_EXCEL_FILE;;
48     if(excelObj == void 0) {
49         excelFileName = selectFileDialog('Select Excel File');
50         if(excelFileName.length) {
51             openExcel(excelFileName);
```

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52         excelSheet = excelBook.ActiveSheet;
53     } else {
54         message('E: No Excel File Selected');
55         return; // If Problem opening selected excel file, stop the process
56     }
57 } else { // Excel is already open (Manually Opened or Re-run for Error Processing)
58     try {
59         excelSheet = excelBook.ActiveSheet;
60         // Check to see if we can read cell value, if not then Re Open Excel File
61         var cellCheckValue = excelSheet.Cells(1, 2).Value;
62     }
63     catch(err) {
64         delete excelObj;
65         goto OPEN_EXCEL_FILE;
66     }
67 }
68
69 // Required columns for PCS Material
70 arrReqCol = ['1','2','3'];
71 nCurrentRow = 2;
72
73 if(!xlsCellDataValidation(excelSheet,nCurrentRow,arrReqCol,'A')) {
74     message('E: Missing Required Values');
75     return;
76 } else{
77     message('S: Validation successful');
78 }
79 }
80
81 //strCheck = 'A' - To check for Blank and NULL
82 //strCheck = 'N' - To check for NULL Only
83 function xlsCellDataValidation(excelActiveSheet, nCurrentRow, arrColumns, strCheck) {
84     nCurrentRow = parseInt(nCurrentRow);
85     errorColumnNo = 0;
86     var z_valChk = '';
87     var validData = true; // Integer to determine the column number which has an error, if it is zero, then no error
88     for(var j=0; j<arrColumns.length;j++) {
89         var nCurrentCol = arrColumns[j];
90         nCurrentCol = parseInt(nCurrentCol);
91         // Check for both Blank and NULL Values
92         if(strCheck == 'A') {
93             z_valChk = excelActiveSheet.Cells(nCurrentRow, nCurrentCol).Value;
94             if(isBlank(z_valChk) || z_valChk.toString().toUpperCase() == "NULL") { //BD - Added toString before toUpperCase
95                 errorColumnNo = nCurrentCol;
96                 validData = false;
97                 break;
98             }
99         }
100         // Check for NULL Values Only
101         if(strCheck == 'N') {
102             z_valChk = excelActiveSheet.Cells(nCurrentRow, nCurrentCol).Value;

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103             if(isBlank(z_valChk)) {
104             } else {
105                 if(z_valChk.toString().toUpperCase() == "NULL") {
106                     errorColumnNo = nCurrentCol;
107                     validData = false;
108                     break;
109                 }
110             }
111         }
112     }
113     return validData;
114 }
115

```