Liquid UI: Creating a Class

In this example, a Class called Item will be created. This class will have attributes like Material and Quantity. Using a class to hold this data helps the code be more modular and makes it easier to access data pertaining to a single item.

User Interface

Log in to SAP and navigate to the transaction VA03.

Enter and order number and then click the pushbutton "Display items". A function will run, fetching the data from the table of the order you entered. Then the data will be displayed to the user on the initial screen.

Liquid UI Code [Script]

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SAPMV45A.E0102.sjs

```javascript
1    ///////////////////////////////////////////////////////////////////////////////////////
2    // Author: Synactive, Inc. [1065 E. Hillsdale Blvd, Foster City, CA, 94404, USA]
3    // Email: support@guixt.com; sales@guixt.com;
4    // Contact: 650.341.3310
5    ///////////////////////////////////////////////////////////////////////////////////////
6
7    // This function creates a class for Item
8    function Item(itm,mat,qty,su){
9        // Attributes of the class
10       this.item = itm;
11       this.material = mat;
12       this.quantity = qty;
13       this.sales_unit = su;
14       // Function used to retrieve information on Item
15       this.getInfo = function(){
16           return "Item:"+this.item+", Material:"+this.material+", Quantity:"+this.quantity+", Sales Unit:"+this.sales_unit;
17       }
18
19   }
20
21
22   // Only execute the following for VA03
23   if(_transaction == "VA03"){
24       // Pushbutton that will trigger the funciton
25       pushbutton("F[Order]+[0,62]", "Display items", "?", {"process":fetchItems});
26
27       // If item_array is undefined, intialize it
28       if(!item_array){
29           item_array = [];
30       }
31
32       // If the array has data in it
33       if(item_array.length>0){
34           // Create a table and columns
35           table([16,0], [26,50], {"name":"z_table", "title":"Line Items", "rows":item_array.length});
36           column("Item", {"size":6,"name":"z_item", "table":"z_table"});
37           column("Material", {"size":18,"name":"z_mat", "table":"z_table"});
38           column("Quantity", {"size":15,"name":"z_qty", "table":"z_table"});
39           column("SU", {"size":3,"name":"z_su", "table":"z_table"});
40
41           // Fill out the table
42           for(i=0;i<item_array.length;i++){
43               println(item_array[i].getInfo());
44               z_table.z_item[i] = item_array[i].item;
45               z_table.z_mat[i] = item_array[i].material;
46               z_table.z_qty[i] = item_array[i].quantity;
```

JavaScript file   length :

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SAPMV45A.E0102.sjs

```javascript
42          for(i=0;i<item_array.length;i++){
43              println(item_array[i].getInfo());
44              z_table.z_item[i] = item_array[i].item;
45              z_table.z_mat[i] = item_array[i].material;
46              z_table.z_qty[i] = item_array[i].quantity;
47              z_table.z_su[i] = item_array[i].sales_unit;
48          }
49
50      }
51  }
52
53
54
55  // This function will table scroll through the VA03 transaction and fetch the data from the table
56  function fetchItems(){
57      onscreen 'SAPMV45A.0102'
58          enter();
59      onerror
60          message(_message);
61          enter("?");
62          goto FUNC_END;
63      onscreen 'SAPMV45A.4001'
64          // Clear the value of item_array
65          item_array = [];
66          absrow = 1;
67          enter("/ScrollToLine=&V[absrow]", {"table":"T[All items]"});
68
69  NEW_SCREEN:;
70      onscreen 'SAPMV45A.4001'
71          gettableattribute("T[All items]", {"firstvisiblerow":"FVR", "lastvisiblerow":"LVR", "lastrow":"LR"});
72          relrow = 1;
73  NEW_ROW:;
74          println("absrow:"+absrow+", LVR:"+LVR+", LR:"+LR);
75          // end of table?
76          if(absrow>LR){
77              goto END_OF_TABLE;
78          }
79          // end of screen?
80          if(absrow>LVR) {
81              goto NEW_SCREEN;
82          }
83
84          set("V[z_temp_item]", "&cell[All items,Item,&V[relrow]]");
85          set("V[z_temp_mat]", "&cell[All items,Material,&V[relrow]]");
86          set("V[z_temp_qty]", "&cell[All items,Order Quantity,&V[relrow]]");
87          set("V[z_temp_su]", "&cell[All items,SU,&V[relrow]]");
```

JavaScript file

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SAPMV45A.E0102.sjs

```javascript
60              message(_message);
61              enter("?");
62              goto FUNC_END;
63          onscreen 'SAPMV45A.4001'
64              // Clear the value of item_array
65              item_array = [];
66              absrow = 1;
67              enter("/ScrollToLine=&V[absrow]", {"table":"T[All items]"});
68
69      NEW_SCREEN:;
70          onscreen 'SAPMV45A.4001'
71              gettableattribute("T[All items]", {"firstvisiblerow":"FVR", "lastvisiblerow":"LVR", "lastrow":"LR"});
72              relrow = 1;
73      NEW_ROW:;
74              println("absrow:"+absrow+", LVR:"+LVR+", LR:"+LR);
75              // end of table?
76              if(absrow>LR){
77                  goto END_OF_TABLE;
78              }
79              // end of screen?
80              if(absrow>LVR) {
81                  goto NEW_SCREEN;
82              }
83
84              set("V[z_temp_item]", "&cell[All items,Item,&V[relrow]]");
85              set("V[z_temp_mat]", "&cell[All items,Material,&V[relrow]]");
86              set("V[z_temp_qty]", "&cell[All items,Order Quantity,&V[relrow]]");
87              set("V[z_temp_su]", "&cell[All items,SU,&V[relrow]]");
88
89              // Push a new Item to the array
90              item_array.push(new Item(z_temp_item,z_temp_mat,z_temp_qty,z_temp_su));
91
92              absrow++;
93              relrow++;
94              goto NEW_ROW;
95
96      END_OF_TABLE:;
97
98              enter('/ScrollToLine=1', {"table":"T[All items]"});
99
100         onscreen 'SAPMV45A.4001'
101             enter("/3")
102
103     FUNC_END:;
104     }
```

JavaScript file