

# 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.

The screenshot shows the SAP VA03 'Display Sales Order: Initial Screen' interface. At the top, there is a menu bar with 'Sales document', 'Edit', 'Goto', 'Environment', 'System', and 'Help'. Below the menu bar is a toolbar with various icons for navigation and actions. The main title of the screen is 'Display Sales Order: Initial Screen'. Below the title, there are navigation tabs for 'Sales', 'Item overview', 'Ordering party', and 'Orders'. The 'Orders' tab is currently selected. In the center of the screen, there is a form with the following fields and buttons:

- 'Order' label followed by a text input field containing '6666' and a copy icon.
- 'Display items' button.
- 'Search Criteria' section with the following fields:
  - Purchase Order No. (text input)
  - Sold-to party (text input)
  - Delivery (text input)
  - Billing Document (text input)
  - WBS Element (text input)
- 'Search' button with a magnifying glass icon.

Enter an 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.

The screenshot shows the SAP 'Display Sales Order: Initial Screen' interface. At the top, there is a navigation bar with 'Sales document', 'Edit', 'Goto', 'Environment', 'System', and 'Help'. Below this is a toolbar with various icons. The main title is 'Display Sales Order: Initial Screen'. A breadcrumb trail shows 'Sales' > 'Item overview' > 'Ordering party' > 'Orders'. The 'Order' field contains the value '6666'. A 'Display items' button is visible. Below the order field is a 'Search Criteria' dialog box with the following fields: Purchase Order No., Sold-to party, Delivery, Billing Document, and WBS Element. A 'Search' button is at the bottom of this dialog. At the bottom of the screen is a 'Line Items' table with the following data:

Item	Material	Quantity	SU
10	R100000	21	PC
20	R100001	2	PC
30	R100003	3	PC
40	R100022	3	PC

## Liquid UI Code [Script]

```
C:\GuiXT\Tutorials\Forum\SAPMV45A.E0102.sjs - Notepad++
File Edit Search View Encoding Language Settings Macro Run TextFX Plugins Window ?
SAPMV45A.E0102.sjs
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 function
25 pushbutton("F[Order]+[0,62]", "Display items", "?", {"process":fetchItems});
26
27 // If item_array is undefined, initialize 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;
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C:\GuiXT\Tutorials\Forum\SAPMV45A.E0102.sjs - Notepad++
File Edit Search View Encoding Language Settings Macro Run TextFX Plugins Window ?
SAPMV45A.E0102.sjs
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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C:\GuiXT\Tutorials\Forum\SAPMV45A.E0102.sjs - Notepad++
File Edit Search View Encoding Language Settings Macro Run TextFX Plugins Window ?
SAPMV45A.E0102.sjs x
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