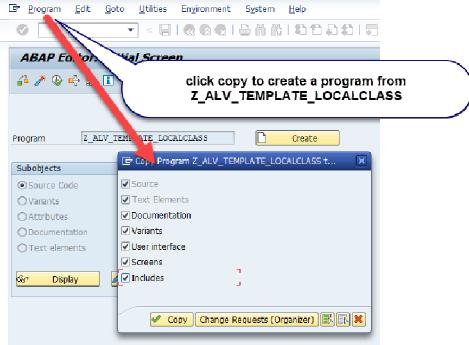
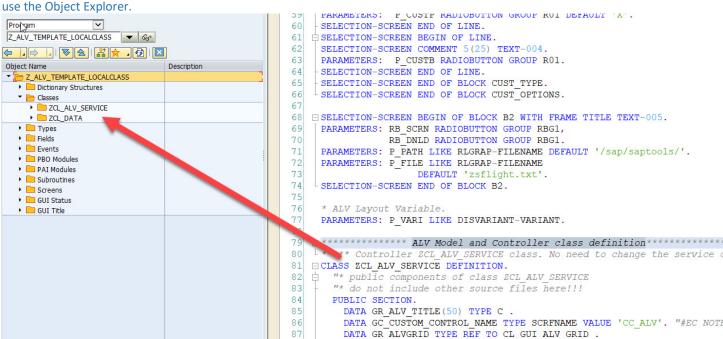
Create an ALV Report in No Time

Wednesday, April 3, 2019 2:56 PM

Create an ALV report by copying from Z_ALV_TEMPLATE_LOCALCLASS
 Program Edit Goto Utilities Environment System Help



• MVC design pattern. Search "ALV Model and Controller class definition " Or



There are two custom Abap classes involved, <code>ZCL_DATA</code> (<code>REF_DATA_OBJECT)</code> and <code>ZCL_ALV_SERVICE</code> (<code>DIST_ALV_DISPLAY</code>). <code>ZCL_DATA</code> is the model and <code>ZCL_ALV_SERVICE</code> is the controller. The view is <code>GR_CCONTAINER</code>, which is initialized inside the constructor <code>ZCL_ALV_SERVICE</code> and imports the custom control container <code>CC_ALV</code> we created in the Screen <code>1001.See Create_ALV_Template_Program.pdf</code>.

Search "Define MVC objects", you will find all the data definition for this MVC model. The instantiation of the MVC model objects is in FORM $\,$ ALV_OUTPUT .

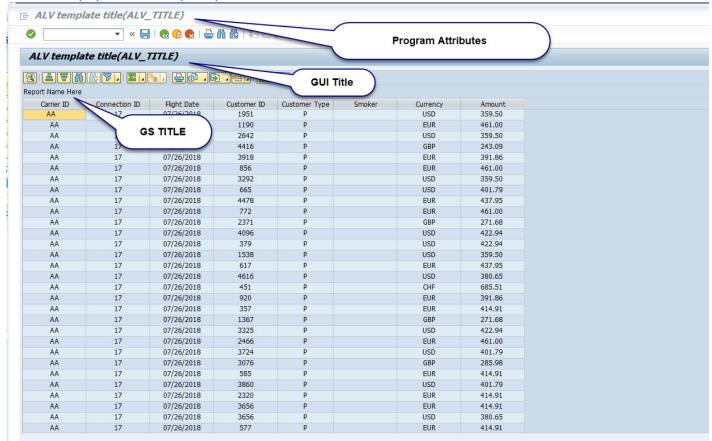
```
FORM ALV_OUTPUT.
    ******* ree the object ref and clean th
    IF REF_DATA_OBJECT IS BOUND.
      FREE REF DATA OBJECT.
     ENDIF.
    IF DIST_ALV_DISPLAY IS BOUND.
      FREE DIST_ALV_DISPLAY.
     ENDIF.
     CLEAR: GS_LAYOUT, GT_FIELDCAT.
REFRESH: GT_FIELDCAT.
   ******** initialize the alv container and
    CREATE OBJECT REF DATA OBJECT.
   *-- Prepare the selection alv
    CREATE OBJECT DIST_ALV_DISPLAY
       EXPORTING
         IN ALV TITLE
                               = GS TITLE
         IN_CUSTOM_CONTROL_NAME = 'CC_ALV'.
   * static method call
     CALL METHOD ZCL_DATA=>GET_GS_LAYOUT
       EXPORTING
        GS_TITLE = GS_TITLE
         PS LAYOUT = GS LAYOUT.

    Change Report Name.

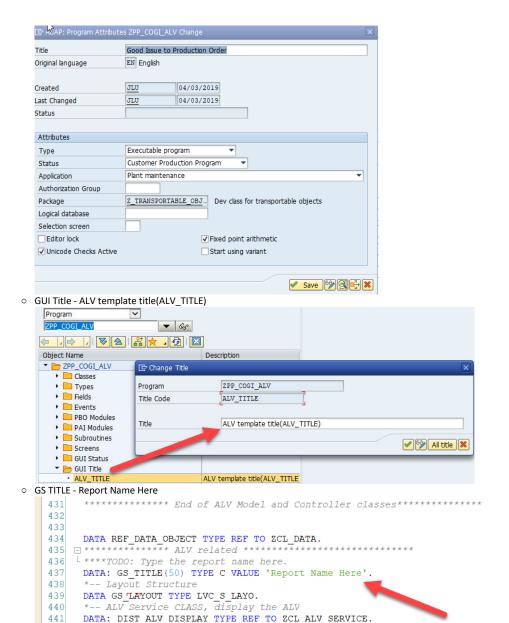
  REPORT ZPP_COGI_ALV
          MESSAGE-ID ZALV
          NO STANDARD PAGE HEADING
          LINE-SIZE 276
```

• Set all the display title below as you expected.

LINE-COUNT 65.



- o REPORT name
- o Program Attribute



Search "TODO: Your own global types and data section". Prepare data type
and data definition, especially the internal table to display. Here it is
ITAB_GIITEM, which will be used below to hook up with the GUI container

442

443

444

445

446 447 *-- Field Category

DATA: FNAME (128) TYPE C.

*-- File Name

DATA GT FIELDCAT TYPE LVC T FCAT.

```
****TODO: Your own global types and data section

TYPES: BEGIN OF TY_GIITEM,

FLAG(1) TYPE C,

AUFNR LIKE RESB-AUFNR, "Production Order

MATNR LIKE RESB-MATNR, "Material

WERKS LIKE RESB-WERKS, "Plant

LGORT LIKE RESB-LGORT, "Storage Location

RSNUM LIKE RESB-RSNUM, "Reservation Quantity

BDMNG LIKE RESB-BDMNG, "Requirement Quantity

ENMNG LIKE RESB-ENMNG, "Withdrawn Quantity

RNMNG LIKE RESB-ENMNG. "Issue Quantity

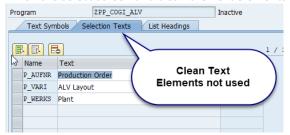
TYPES: END OF TY_GIITEM.

DATA: ITAB_GIITEM TYPE STANDARD TABLE OF TY_GIITEM,

WA_GIITEM TYPE TY_GIITEM.

CONSTANTS: C_CHECK(1) VALUE 'X'. "value used to set X for a field
```

Finish the select screen and clean the Text elements



- Search "TODO: prepare the model data here. " and prepare the data to display.
- Search "TODO: Delete the code below ". This code is only for demo alv template.
- Search "TODO: Prepare ALV Field Category" and set field category for fields to display in ALV grid.

```
****TODO: Prepare ALV Field Category (column name, type etc)
320 E METHOD GET FIELDCAT.
          DATA WA_PT_FCAT TYPE LVC_S_FCAT.
321
322
          CLEAR WA PT FCAT.
323
          WA PT FCAT-FIELDNAME = 'CHECKBOX'.
324
          WA_PT_FCAT-CHECKBOX = 'X'.
          WA PT FCAT-EDIT = 'X'.
325
          WA_PT_FCAT-COLTEXT = 'Select'.
326
          WA PT FCAT-SELTEXT = 'Select A Row'.
327
328
          APPEND WA PT FCAT TO PT FIELDCAT.
329
330
          CLEAR WA PT FCAT.
331
          WA_PT_FCAT-FIELDNAME = 'MATNR'.
          WA_PT_FCAT-REF_TABLE = 'ITAB_GIITEMS'.
WA_PT_FCAT-REF_FIELD = 'MATNR'.
332
333
          WA_PT_FCAT-OUTPUTLEN = '18'.
334
335
           WA PT FCAT-JUST = 'L'.
336
           WA PT FCAT-COLTEXT = 'Material'.
           WA PT FCAT-SELTEXT = 'Material'.
337
338
          APPEND WA PT FCAT TO PT FIELDCAT.
```

ALV output or Download. Search "ALV output or Background job download."

This template provide code sample for either ALV output or file download. Comment out DOWNLOAD_OUTPUT if no needed, both DOWNLOAD_OUTPUT, DOWNLOAD_HEADER and DOWNLOAD_DETAIL forms and the form call.

• Search "TODO: set your table ". Link your table to the view

```
MODULE STATUS_1001 OUTPUT.

SET PF-STATUS 'ALV'. "Defined in the GUI Status folder
SET TITLEBAR 'ALV_TITLE'. "Defined in the GUI Title folder

****TODO: set your table

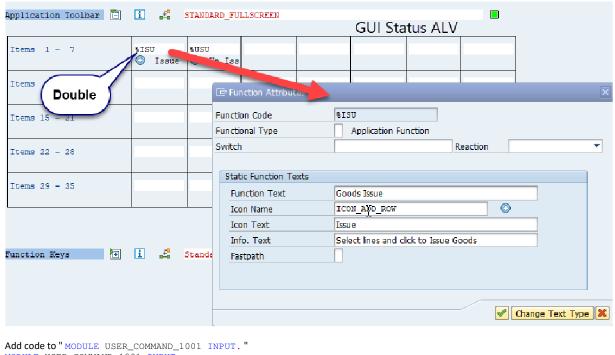
* display it

CALL METHOD DIST_ALV_DISPLAY->DISPLAY_ALV
CHANGING
GT_FIELDCAT GS_LAYOUT
GS_LAYOUT GS_LAYOUT
GS_TAB = ITAB_GIITEM[]
GS_VARIANT = P_VARI.

ENDMODULE. "STATUS 1001 OUTPUT
```

Add Buttons to the Application Tab.

Add Item into GUI Status ALV.



```
MODULE USER_COMMAND_1001 INPUT.
  CASE SY-UCOMM.
    WHEN '%ISU'. " Issue Goods
      REFRESH: ITAB_SELECTEDGIITEM.
*** Get input
      CALL METHOD DIST_ALV_DISPLAY->CHECK_CHANGED_DATA.
      CALL METHOD REF_DATA_OBJECT->GETSELECTED
        EXPORTING
          ITEMS
                        = ITAB_GIITEM
        IMPORTING
          SELECTEDITEMS = ITAB_SELECTEDGIITEM.
      IF LINES( ITAB_SELECTEDGIITEM ) > 0.
        CALL METHOD DIST_ALV_DISPLAY->POST_GOODSISSUE
          EXPORTING
            ISISSUE = 'X'
SELECTEDITEMS = ITAB_SELECTEDGIITEM.
        CALL METHOD REF_DATA_OBJECT->GET_DATA.
      ENDIF.
    WHEN '%USU'. " Goods Withdraw
      REFRESH: ITAB_SELECTEDGIITEM.
*** Get Input
      CALL METHOD DIST_ALV_DISPLAY->CHECK_CHANGED_DATA.
      CALL METHOD REF_DATA_OBJECT->GETSELECTED
        EXPORTING
          ITEMS
                        = ITAB_GIITEM
        IMPORTING
          SELECTEDITEMS = ITAB SELECTEDGIITEM.
      IF LINES( ITAB_SELECTEDGIITEM ) > 0.
        CALL METHOD DIST_ALV_DISPLAY->POST_GOODSISSUE
          EXPORTING
            TSTSSUE
            {\tt SELECTEDITEMS} = {\tt ITAB\_SELECTEDGIITEM}.
        CALL METHOD REF_DATA_OBJECT->GET_DATA.
      ENDIF.
    WHEN 'BACK' OR 'EXIT' OR 'RETURN' OR 'CANCEL' OR '&F03' OR '&F12' OR
      LEAVE TO SCREEN '0'.
      CALL METHOD DIST_ALV_DISPLAY->FREE.
    WHEN 'DISPLAY'.
      LEAVE TO SCREEN 1001.
  ENDCASE.
ENDMODULE.
                            " USER_COMMAND_1001 INPUT
```

• Add an action to the controller, for example posting.

