CLASS lcl\_report DEFINITION.  
  
 PUBLIC SECTION.  
  
  
 TYPES: BEGIN OF ty\_vbak,  
 vbeln TYPE vbak-vbeln,  
 erdat TYPE erdat,  
 auart TYPE auart,  
 kunnr TYPE kunnr,  
 t\_color TYPE lvc\_t\_scol,  
 END OF ty\_vbak.  
  
  
 TYPES: ty\_t\_vbak TYPE STANDARD TABLE OF ty\_vbak.  
  
 DATA: t\_vbak TYPE STANDARD TABLE OF ty\_vbak.  
  
  
 DATA: o\_alv TYPE REF TO cl\_salv\_table.  
  
 METHODS:  
  
 get\_data,  
  
  
 generate\_output.  
  
 PRIVATE SECTION.  
  
 METHODS:  
 set\_pf\_status  
 CHANGING  
 co\_alv TYPE REF TO cl\_salv\_table.  
*\**  
 METHODS:  
 set\_layout  
 CHANGING  
 co\_alv TYPE REF TO cl\_salv\_table.  
  
 METHODS:  
 set\_top\_of\_page  
 CHANGING  
 co\_alv TYPE REF TO cl\_salv\_table.  
 METHODS:  
 set\_end\_of\_page  
 CHANGING  
 co\_alv TYPE REF TO cl\_salv\_table.  
  
 METHODS:  
 set\_display\_setting  
 CHANGING  
 co\_alv TYPE REF TO cl\_salv\_table.  
  
 METHODS:  
 set\_columns  
 CHANGING  
 co\_alv TYPE REF TO cl\_salv\_table.  
  
  
 METHODS:  
 set\_hotspot\_vbeln  
 CHANGING  
 co\_alv TYPE REF TO cl\_salv\_table  
 co\_report TYPE REF TO lcl\_report.  
*\**  
*\* Event Handler for HOTSPOT event*  
 METHODS:  
 on\_link\_click  
 FOR EVENT link\_click OF cl\_salv\_events\_table  
 IMPORTING  
 row  
 column .  
  
  
  
 METHODS:  
 set\_colors  
 CHANGING  
 co\_alv TYPE REF TO cl\_salv\_table  
 ct\_vbak TYPE ty\_t\_vbak.  
  
ENDCLASS.  
  
START-OF-SELECTION.  
 DATA: lo\_report TYPE REF TO lcl\_report.  
  
 CREATE OBJECT lo\_report.  
  
 lo\_report->get\_data( ).  
  
 lo\_report->generate\_output( ).  
  
CLASS lcl\_report IMPLEMENTATION.  
*\**  
 METHOD get\_data.  
  
 SELECT vbeln erdat auart kunnr  
 INTO CORRESPONDING FIELDS OF TABLE t\_vbak  
 FROM vbak  
 UP TO 20 ROWS.  
  
 ENDMETHOD.  
  
 METHOD generate\_output.  
  
 DATA: lx\_msg TYPE REF TO cx\_salv\_msg.  
 TRY.  
 cl\_salv\_table=>factory(  
 IMPORTING  
 r\_salv\_table = o\_alv  
 CHANGING  
 t\_table = t\_vbak ).  
 CATCH cx\_salv\_msg INTO lx\_msg.  
 ENDTRY.  
 DATA: lc\_sort TYPE REF TO cl\_salv\_sorts.  
 TRY.  
 lc\_sort = O\_alv->get\_sorts( ).  
  
 lc\_sort->add\_sort( columnname = 'VBELN'  
 subtotal = abap\_true  
 sequence = if\_salv\_c\_sort=>sort\_up ).  
  
 CATCH:cx\_salv\_not\_found cx\_salv\_data\_error cx\_salv\_existing.  
 ENDTRY.  
  
 CALL METHOD set\_pf\_status  
 CHANGING  
 co\_alv = o\_alv.  
  
 CALL METHOD set\_layout  
 CHANGING  
 co\_alv = o\_alv.  
  
 CALL METHOD me->set\_top\_of\_page  
 CHANGING  
 co\_alv = o\_alv.  
  
 CALL METHOD me->set\_end\_of\_page  
 CHANGING  
 co\_alv = o\_alv.  
  
 CALL METHOD set\_display\_setting  
 CHANGING  
 co\_alv = o\_alv.  
  
 CALL METHOD me->set\_columns  
 CHANGING  
 co\_alv = o\_alv.  
  
 CALL METHOD set\_hotspot\_vbeln  
 CHANGING  
 co\_alv = o\_alv  
 co\_report = lo\_report.  
  
 CALL METHOD set\_colors  
 CHANGING  
 co\_alv = o\_alv  
 ct\_vbak = t\_vbak.  
  
 DATA: lo\_functions TYPE REF TO cl\_salv\_functions\_list.  
  
 lo\_functions = o\_alv->get\_functions( ).  
 lo\_functions->set\_default( abap\_true ).  
 o\_alv->display( ).  
  
 ENDMETHOD.  
 METHOD set\_pf\_status.  
 co\_alv->set\_screen\_status(  
 report = 'ZBABU\_HANDLE'  
 pfstatus = 'STANDARD'  
  
 ).  
 ENDMETHOD.  
 METHOD set\_layout.  
  
 DATA: lo\_layout TYPE REF TO cl\_salv\_layout,  
 lf\_variant TYPE slis\_vari,  
 ls\_key TYPE salv\_s\_layout\_key.  
  
 lo\_layout = co\_alv->get\_layout( ).  
  
 ls\_key-report = sy-repid.  
 lo\_layout->set\_key( ls\_key ).  
  
 lo\_layout->set\_save\_restriction( if\_salv\_c\_layout=>restrict\_none ).  
  
 lf\_variant = 'DEFAULT'.  
 lo\_layout->set\_initial\_layout( lf\_variant ).  
  
  
 ENDMETHOD.  
 METHOD set\_top\_of\_page.  
*\**  
 DATA: lo\_header TYPE REF TO cl\_salv\_form\_layout\_grid,  
 lo\_h\_label TYPE REF TO cl\_salv\_form\_label,  
 lo\_h\_flow TYPE REF TO cl\_salv\_form\_layout\_flow.  
*\**  
*\* header object*  
 CREATE OBJECT lo\_header.  
*\**  
*\* To create a Lable or Flow we have to specify the target*  
*\* row and column number where we need to set up the output*  
*\* text.*  
*\**  
*\* information in Bold*  
 lo\_h\_label = lo\_header->create\_label( row = 1 column = 1 ).  
 lo\_h\_label->set\_text( 'Header in Bold' ).  
*\**  
*\* information in tabular format*  
 lo\_h\_flow = lo\_header->create\_flow( row = 2 column = 1 ).  
 lo\_h\_flow->create\_text( text = 'This is text of flow' ).  
*\**  
 lo\_h\_flow = lo\_header->create\_flow( row = 3 column = 1 ).  
 lo\_h\_flow->create\_text( text = 'Number of Records in the output' ).  
*\**  
 lo\_h\_flow = lo\_header->create\_flow( row = 3 column = 2 ).  
 lo\_h\_flow->create\_text( text = 20 ).  
*\**  
*\* set the top of list using the header for Online.*  
 co\_alv->set\_top\_of\_list( lo\_header ).  
*\**  
*\* set the top of list using the header for Print.*  
 co\_alv->set\_top\_of\_list\_print( lo\_header ).  
*\**  
 ENDMETHOD. *"set\_top\_of\_page*  
*\**  
 METHOD set\_end\_of\_page.  
*\**  
 DATA: lo\_footer TYPE REF TO cl\_salv\_form\_layout\_grid,  
 lo\_f\_label TYPE REF TO cl\_salv\_form\_label,  
 lo\_f\_flow TYPE REF TO cl\_salv\_form\_layout\_flow.  
*\**  
*\* footer object*  
 CREATE OBJECT lo\_footer.  
*\**  
*\* information in bold*  
 lo\_f\_label = lo\_footer->create\_label( row = 1 column = 1 ).  
 lo\_f\_label->set\_text( 'Footer .. here it goes' ).  
*\**  
*\* tabular information*  
 lo\_f\_flow = lo\_footer->create\_flow( row = 2 column = 1 ).  
 lo\_f\_flow->create\_text( text = 'This is text of flow in footer' ).  
*\**  
 lo\_f\_flow = lo\_footer->create\_flow( row = 3 column = 1 ).  
 lo\_f\_flow->create\_text( text = 'Footer number' ).  
*\**  
 lo\_f\_flow = lo\_footer->create\_flow( row = 3 column = 2 ).  
 lo\_f\_flow->create\_text( text = 1 ).  
*\**  
*\* Online footer*  
 co\_alv->set\_end\_of\_list( lo\_footer ).  
*\**  
*\* Footer in print*  
 co\_alv->set\_end\_of\_list\_print( lo\_footer ).  
*\**  
  
 ENDMETHOD.  
 METHOD set\_display\_setting.  
*\**  
 DATA: lo\_display TYPE REF TO cl\_salv\_display\_settings.  
*\**  
*\* get display object*  
 lo\_display = co\_alv->get\_display\_settings( ).  
*\**  
*\* set ZEBRA pattern*  
 lo\_display->set\_striped\_pattern( 'X' ).  
*\**  
*\* Title to ALV*  
 lo\_display->set\_list\_header( 'ALV Test for Display Settings' ).  
*\**  
  
 ENDMETHOD.  
 METHOD set\_columns.  
*\**  
*\*...Get all the Columns*  
 DATA: lo\_cols TYPE REF TO cl\_salv\_columns.  
 lo\_cols = o\_alv->get\_columns( ).  
*\**  
*\* set the Column optimization*  
 lo\_cols->set\_optimize( 'X' ).  
*\**  
*\*...Process individual columns*  
 DATA: lo\_column TYPE REF TO cl\_salv\_column.  
*\**  
*\* Change the properties of the Columns KUNNR*  
 TRY.  
 lo\_column = lo\_cols->get\_column( 'KUNNR' ).  
 lo\_column->set\_long\_text( 'Sold-To Party' ).  
 lo\_column->set\_medium\_text( 'Sold-To Party' ).  
 lo\_column->set\_short\_text( 'Sold-To' ).  
 lo\_column->set\_output\_length( 10 ).  
 CATCH cx\_salv\_not\_found. *"#EC NO\_HANDLER*  
 ENDTRY.  
  
 ENDMETHOD.  
  
 METHOD set\_hotspot\_vbeln.  
*\**  
*\*...HotSpot*  
 DATA: lo\_cols\_tab TYPE REF TO cl\_salv\_columns\_table,  
 lo\_col\_tab TYPE REF TO cl\_salv\_column\_table.  
*\**  
*\* get Columns object*  
 lo\_cols\_tab = co\_alv->get\_columns( ).  
*\**  
*\* Get VBELN column*  
 TRY.  
 lo\_col\_tab ?= lo\_cols\_tab->get\_column( 'VBELN' ).  
 CATCH cx\_salv\_not\_found.  
 ENDTRY.  
*\**  
*\* Set the HotSpot for VBELN Column*  
 TRY.  
 CALL METHOD lo\_col\_tab->set\_cell\_type  
 EXPORTING  
 value = if\_salv\_c\_cell\_type=>hotspot.  
 .  
 CATCH cx\_salv\_data\_error .  
 ENDTRY.  
*\**  
*\*...Events*  
 DATA: lo\_events TYPE REF TO cl\_salv\_events\_table.  
*\**  
*\* all events*  
 lo\_events = o\_alv->get\_event( ).  
*\**  
*\* event handler*  
 SET HANDLER co\_report->on\_link\_click FOR lo\_events.  
*\**  
 ENDMETHOD. *"set\_hotspot\_vbeln*  
*\**  
*\* Handles the UI on the VBELN (HotSpot)*  
 METHOD on\_link\_click.  
*\**  
 DATA: la\_vbak TYPE ty\_vbak.  
*\**  
*\* Get the Sales Order number from the table*  
 READ TABLE lo\_report->t\_vbak INTO la\_vbak INDEX row.  
 IF la\_vbak-vbeln IS NOT INITIAL.  
 MESSAGE i398(00) WITH 'You have selected' la\_vbak-vbeln.  
 ENDIF.  
  
 ENDMETHOD.  
*\**  
 METHOD set\_colors.  
*\**  
*\*.....Color for COLUMN.....*  
 DATA: lo\_cols\_tab TYPE REF TO cl\_salv\_columns\_table,  
 lo\_col\_tab TYPE REF TO cl\_salv\_column\_table.  
 DATA: ls\_color TYPE lvc\_s\_colo. *" Colors strucutre*  
*\**  
*\* get Columns object*  
 lo\_cols\_tab = co\_alv->get\_columns( ).  
*\**  
 INCLUDE <color>.  
*\**  
*\* Get ERDAT column & set the yellow Color fot it*  
 TRY.  
 lo\_col\_tab ?= lo\_cols\_tab->get\_column( 'ERDAT' ).  
 ls\_color-col = col\_total.  
 lo\_col\_tab->set\_color( ls\_color ).  
 CATCH cx\_salv\_not\_found.  
 ENDTRY.  
*\**  
*\*.......Color for Specific Cell & Rows.................*  
*\* Applying color on the 3rd Row and Column AUART*  
*\* Applying color on the Entire 5th Row*  
*\**  
 DATA: lt\_s\_color TYPE lvc\_t\_scol,  
 ls\_s\_color TYPE lvc\_s\_scol,  
 la\_vbak LIKE LINE OF ct\_vbak,  
 l\_count TYPE i.  
*\**  
 LOOP AT ct\_vbak INTO la\_vbak.  
 l\_count = l\_count + 1.  
 CASE l\_count.  
*\* Apply RED color to the AUART Cell of the 3rd Row*  
 WHEN 3.  
 ls\_s\_color-fname = 'AUART'.  
 ls\_s\_color-color-col = col\_negative.  
 ls\_s\_color-color-int = 0.  
 ls\_s\_color-color-inv = 0.  
 APPEND ls\_s\_color TO lt\_s\_color.  
 CLEAR ls\_s\_color.  
*\**  
*\* Apply GREEN color to the entire row # 5*  
*\* For entire row, we don't pass the Fieldname*  
 WHEN 5.  
 ls\_s\_color-color-col = col\_positive.  
 ls\_s\_color-color-int = 0.  
 ls\_s\_color-color-inv = 0.  
 APPEND ls\_s\_color TO lt\_s\_color.  
 CLEAR ls\_s\_color.  
 ENDCASE.  
*\* Modify that data back to the output table*  
 la\_vbak-t\_color = lt\_s\_color.  
 MODIFY ct\_vbak FROM la\_vbak.  
 CLEAR la\_vbak.  
 CLEAR lt\_s\_color.  
 ENDLOOP.  
*\**  
*\* We will set this COLOR table field name of the internal table to*  
*\* COLUMNS tab reference for the specific colors*  
 TRY.  
 lo\_cols\_tab->set\_color\_column( 't\_color' ).  
 CATCH cx\_salv\_data\_error. *"#EC NO\_HANDLER*  
 ENDTRY.  
*\**  
  
 o\_alv->display( ).  
  
 ENDMETHOD.  
  
  
  
  
  
ENDCLASS.