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Former Member

Jun 18, 2007 at 12:22 PM

Event handling in alv oops With buttons



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Hi Experts

I have some doubt in ALV OOPS using Events. Could any one please tell me the procedure to how to handle events in oops (Like interactive reports using events).

Thank you

Satyendra.

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Handling Events in OOPS ALV

Former Member Jan 07, 2009

1 Answer

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Best Answer



Uwe Schieferstein

Jun 18, 2007 at 12:35 PM



Hello Satyendra

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The following sample report shows you how to handle the event HOTSPOT_CLICK and BUTTON_CLICK.

```
DATA:  gd_okcode TYPE ui_func,
       gt_fcat  TYPE lvc_t_fcat,
       go_docking TYPE REF TO cl_gui_docking_container,
       go_grid1 TYPE REF TO cl_gui_alv_grid.

DATA:  gt_knb1 TYPE STANDARD TABLE OF knb1.

PARAMETERS: p_bukrs TYPE bukrs  DEFAULT '2000'  OBLIGATORY.

CLASS lcl_eventhandler DEFINITION.
  PUBLIC SECTION.

  CLASS-METHODS:
    handle_hotspot_click FOR EVENT hotspot_click OF cl_gui_alv_grid
      IMPORTING
        e_row_id
        e_column_id
```

```

        es_row_no
        sender, " grid instance that raised the event

handle_button_click FOR EVENT button_click OF cl_gui_alv_grid
IMPORTING
    es_col_id
    es_row_no
    sender.

ENDCLASS.                                "lcl_eventhandler DEFINITION

CLASS lcl_eventhandler IMPLEMENTATION.

METHOD handle_hotspot_click.
*   define local data
DATA:
    ls_knb1      TYPE knb1,
    ls_col_id    TYPE lvc_s_col.

READ TABLE gt_knb1 INTO ls_knb1 INDEX e_row_id-index.
CHECK ( ls_knb1-kunnr IS NOT INITIAL ).

CASE e_column_id-fieldname.
    WHEN 'KUNNR'.
        SET PARAMETER ID 'KUN' FIELD ls_knb1-kunnr.
        SET PARAMETER ID 'BUK' FIELD ls_knb1-bukrs.
        CALL TRANSACTION 'XD03' AND SKIP FIRST SCREEN.

    WHEN 'ERNAM'.*
        SET PARAMETER ID 'USR' FIELD ls_knb1-ernam.
        CALL TRANSACTION 'SU01' AND SKIP FIRST SCREEN.

    WHEN OTHERS.
ENDCASE.

*   Set active cell to field BUKRS otherwise the focus is still on
*   field KUNNR which will always raise event HOTSPOT_CLICK
ls_col_id-fieldname = 'BUKRS'.
CALL METHOD go_grid1->set_current_cell_via_id
EXPORTING
    is_row_id      = e_row_id
    is_column_id = ls_col_id.

```

```

ENDMETHOD.                                "handle_hotspot_click

METHOD handle_button_click.
*   define local data
DATA:
    ls_knb1      TYPE knb1.

    READ TABLE gt_knb1 INTO ls_knb1 INDEX es_row_no-row_id.
    CHECK ( ls_knb1-kunnr IS NOT INITIAL ).

    SET PARAMETER ID 'KUN' FIELD ls_knb1-kunnr.
    SET PARAMETER ID 'BUK' FIELD ls_knb1-bukrs.

    CALL TRANSACTION 'XD03' AND SKIP FIRST SCREEN.

ENDMETHOD.                                "handle_button_click

ENDCLASS.                                "lcl_eventhandler IMPLEMENTATION

START-OF-SELECTION.

    SELECT      * FROM knb1 INTO TABLE gt_knb1
        WHERE bukrs = p_bukrs
* Create docking container
CREATE OBJECT go_docking
EXPORTING
    parent          = cl_gui_container=>screen0
    ratio           = 90
EXCEPTIONS
    OTHERS          = 6.
IF sy-subrc <> 0.
*   MESSAGE ID SY-MSGID TYPE SY-MSGTY NUMBER SY-MSGNO
*           WITH SY-MSGV1 SY-MSGV2 SY-MSGV3 SY-MSGV4.
ENDIF.

* Create ALV grid
CREATE OBJECT go_grid1
EXPORTING
    i_parent        = go_docking
EXCEPTIONS
    OTHERS          = 5.

```

```

IF sy-subrc <> 0.
*   MESSAGE ID SY-MSGID TYPE SY-MSGTY NUMBER SY-MSGNO
*           WITH SY-MSGV1 SY-MSGV2 SY-MSGV3 SY-MSGV4.
ENDIF.

* Set event handler
SET HANDLER:
    lcl_eventhandler=>handle_hotspot_click FOR go_grid1,
    lcl_eventhandler=>handle_button_click FOR go_grid1.

* Build fieldcatalog and set hotspot for field KUNNR
PERFORM build_fieldcatalog_knb1.
* Display data
CALL METHOD go_grid1->set_table_for_first_display
    CHANGING
        it_outtab      = gt_knb1
        it_fieldcatalog = gt_fcat
    EXCEPTIONS
        OTHERS          = 4.
IF sy-subrc <> 0.
*   MESSAGE ID SY-MSGID TYPE SY-MSGTY NUMBER SY-MSGNO
*           WITH SY-MSGV1 SY-MSGV2 SY-MSGV3 SY-MSGV4.
ENDIF.

* Link the docking container to the target dynpro
CALL METHOD go_docking->link
    EXPORTING
        repid          = syst-repid
        dynnr          = '0100'
*   CONTAINER          =
    EXCEPTIONS
        OTHERS          = 4.
IF sy-subrc <> 0.
*   MESSAGE ID SY-MSGID TYPE SY-MSGTY NUMBER SY-MSGNO
*           WITH SY-MSGV1 SY-MSGV2 SY-MSGV3 SY-MSGV4.
ENDIF.

* ok-code field = GD_OKCODE
CALL SCREEN '0100'.

```

```
END-OF-SELECTION.

MODULE status_0100 OUTPUT.
  SET PF-STATUS 'STATUS_0100'.
  * SET TITLEBAR 'xxx'.

ENDMODULE.                " STATUS_0100  OUTPUT

MODULE user_command_0100 INPUT.

  CASE gd_okcode.
    WHEN 'BACK' OR
         'END' OR
         'CANC'.
      SET SCREEN 0. LEAVE SCREEN.
    WHEN OTHERS.
  ENDCASE.

  CLEAR: gd_okcode.

ENDMODULE.                " USER_COMMAND_0100  INPUT

FORM build_fieldcatalog_knb1 .
* define local data
DATA:
  ls_fcat      TYPE lvc_s_fcat.

  CALL FUNCTION 'LVC_FIELDCATALOG_MERGE'
    EXPORTING
      * I_BUFFER_ACTIVE           =
      i_structure_name           = 'KNB1'
      * I_CLIENT_NEVER_DISPLAY   = 'X'
      * I_BYPASSING_BUFFER       =
      * I_INTERNAL_TABNAME       =
    CHANGING
      ct_fieldcat                = gt_fcat
    EXCEPTIONS
      inconsistent_interface      = 1
      program_error               = 2
      OTHERS                      = 3.
```

```
IF sy-subrc <> 0.
* MESSAGE ID SY-MSGID TYPE SY-MSGTY NUMBER SY-MSGNO
*       WITH SY-MSGV1 SY-MSGV2 SY-MSGV3 SY-MSGV4.
ENDIF.

LOOP AT gt_fcat INTO ls_fcat
    WHERE ( fieldname = 'KUNNR' OR
            fieldname = 'ERNAM' OR
            fieldname = 'BUKRS' ).
    IF ( ls_fcat-fieldname = 'BUKRS' ).
        ls_fcat-style = cl_gui_alv_grid=>mc_style_button. " column appears as button
    ELSE.
        ls_fcat-hotspot = abap_true.
    ENDIF.

    MODIFY gt_fcat FROM ls_fcat.
ENDLOOP.
ENDFORM.                " BUILD_FIELDCATALOG_KNB1
```

Regards

Uwe

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