

## Applies To:

SAP / ABAP

## Summary

Here is an ABAP code sample that deals with viewing files/pictures using HTML Control  
This can also be used as a General Web Browser.

Features of this Code sample are

- Uses HTML Control.
- Creating pushbuttons buttons in the application toolbar.
- Changing the GUI status of Selection Screen from within the program.

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**Date** : 21 February 2005

## Code

```
*&-----*
*& Report  ZBROWSER
*&-----*
*****
* Description : Using HTML Control as General WWW Browser
* Author      : Immanuel Daniel
*****
REPORT zbrowser .

TABLES : ssctrlfields.
INCLUDE <ctrldef>.
INCLUDE <icon>.

CONSTANTS: htmlcntl_eventid_on_navigate TYPE i VALUE 1.
CONSTANTS: htmlcntl_eventid_navigate_com TYPE i VALUE 2.

DATA : h_html_ctrl TYPE cntl_handle,
       repid TYPE sy-repid,
       dynnr TYPE sy-dynnr,
       cmd TYPE sy-ucomm,
       flag,disp.

DATA : it_exclude LIKE TABLE OF rsexrcode WITH HEADER LINE.

SELECTION-SCREEN : FUNCTION KEY 1,
                  FUNCTION KEY 2,
                  FUNCTION KEY 3,
                  FUNCTION KEY 4,
                  FUNCTION KEY 5.
```

```
SELECTION-SCREEN COMMENT 45(50) comment1.
SELECTION-SCREEN BEGIN OF LINE.
SELECTION-SCREEN COMMENT 2(28) comment2 FOR FIELD url.
SELECTION-SCREEN POSITION 31.
PARAMETERS : url(1064) LOWER CASE .
SELECTION-SCREEN PUSHBUTTON 79(4) open USER-COMMAND open.
SELECTION-SCREEN END OF LINE.
```

INITIALIZATION.

```
comment1 = 'ABAP INTERNET EXPLORER'.
comment2 = 'Enter URL/Filename To Open :'.
```

```
open = icon_transfer .
sscrfields-functxt_05 = icon_sap.
sscrfields-functxt_04 = icon_booking_stop.
sscrfields-functxt_03 = icon_refresh.
sscrfields-functxt_02 = icon_arrow_right.
sscrfields-functxt_01 = icon_arrow_left.
```

```
repid = sy-repid.
dynnr = '1000'.
```

```
it_exclude-fcode = 'ONLI'.
APPEND it_exclude.
```

```
it_exclude-fcode = 'INFO'.
APPEND it_exclude.
```

*\*Changing GUI status*

```
CALL FUNCTION 'RS_SET_SELSCREEN_STATUS'
  EXPORTING
    p_status = sy-pfkey
    * p_program = repid
  TABLES
    p_exclude = it_exclude.
```

```
CALL FUNCTION 'CONTROL_INIT' .
IF sy-subrc <> 0.
  EXIT.
ENDIF.
```

```
CALL FUNCTION 'HTMLCNTL_CREATE'
  EXPORTING
    owner_rep_id      = repid
    link_rep_id       = repid
    dynnr             = dynnr
    handle            = h_html_ctrl
  EXCEPTIONS
    control_install_error = 1
    create_error         = 2
```

OTHERS = 3

IF sy-subrc <> 0.  
EXIT.  
ENDIF.

CALL FUNCTION 'HTMLCNTL\_INIT'  
EXPORTING  
h\_control = h\_html\_ctrl  
left = 1  
top = 2  
width = 143  
height = 37  
register\_event\_on\_navigate = 'X'  
cb\_form\_navigate\_complete = 'ON\_CONTROL\_EVENT'  
EXCEPTIONS  
cntl\_system\_error = 1  
cntl\_error = 2  
dp\_create\_error = 3  
dp\_install\_error = 4  
dp\_error = 5  
create\_browser\_error = 6  
init\_error = 7  
OTHERS = 8

IF sy-subrc <> 0.  
EXIT.  
ENDIF.

CALL FUNCTION 'CONTROL\_FLUSH'.

AT SELECTION-SCREEN.

cmd = sscrfields-ucomm.

CASE cmd.

WHEN 'OPEN'.

PERFORM load\_html\_page.  
CALL FUNCTION 'CONTROL\_FLUSH'.

WHEN 'FC01'. "BACK

CALL FUNCTION 'HTMLCNTL\_GO\_BACK'  
EXPORTING  
h\_control = h\_html\_ctrl.

IF sy-subrc <> 0.  
EXIT.  
ENDIF.

```
PERFORM get_current_url.
```

```
WHEN 'FC02'.    "FORWARD
```

```
CALL FUNCTION 'HTMLCNTL_GO_FORWARD'  
  EXPORTING  
    h_control = h_html_ctrl.
```

```
IF sy-subrc <> 0.  
  EXIT.  
ENDIF.
```

```
PERFORM get_current_url.
```

```
WHEN 'FC03'.    "REFRESH
```

```
CALL FUNCTION 'HTMLCNTL_DO_REFRESH'  
  EXPORTING  
    h_control = h_html_ctrl.
```

```
IF sy-subrc <> 0.  
  EXIT.  
ENDIF.
```

```
PERFORM get_current_url.
```

```
WHEN 'FC04'.    "STOP
```

```
CALL FUNCTION 'HTMLCNTL_STOP'  
  EXPORTING  
    h_control = h_html_ctrl.
```

```
IF sy-subrc <> 0.  
  EXIT.  
ENDIF.
```

```
WHEN 'FC05'.    "GO TO HOME
```

```
CALL FUNCTION 'HTMLCNTL_GO_HOME'  
  EXPORTING  
    h_control = h_html_ctrl.
```

```
IF sy-subrc <> 0.  
  EXIT.  
ENDIF.
```

```
PERFORM get_current_url.  
CALL FUNCTION 'CONTROL_FLUSH'.
```

```
WHEN OTHERS.
```

# General Browser to View Files/Pictures & WebPages

```
CALL FUNCTION 'CONTROL_DISPATCH'
  EXPORTING
    fcode = cmd.
```

```
CALL FUNCTION 'CONTROL_FLUSH'.
```

```
ENDCASE.
CLEAR cmd.
CALL FUNCTION 'CONTROL_FLUSH'.
```

```
AT SELECTION-SCREEN ON VALUE-REQUEST FOR url.
  PERFORM get_file_name.
  PERFORM load_html_page.
```

```
*&-----
*&   Form get_page_name
*&-----
*   Get Page Name
*-----
```

```
FORM get_file_name.
```

```
CALL FUNCTION 'WS_FILENAME_GET'
  EXPORTING
    * DEF_FILENAME = ''
    def_path       = 'C:\'
    mask           = '*.*.*'
    mode           = 'o'
    title          = 'Browse to Open'
  IMPORTING
    filename       = url
    * RC           =
  EXCEPTIONS
    inv_winsys     = 1
    no_batch       = 2
    selection_cancel = 3
    selection_error = 4
    OTHERS         = 5
    .
IF sy-subrc <> 0.
  EXIT.
ENDIF.
```

```
ENDFORM.          " get_page_name
```

```
*&-----
*&   Form load_html_page
*&-----
*   TO load the file (URL)
```

\*-----\*

FORM load\_html\_page.

```
CALL FUNCTION 'HTMLCNTL_SHOW_URL'
  EXPORTING
    h_control = h_html_ctrl
    url       = url.
IF sy-subrc <> 0.
  EXIT.
ENDIF.
```

flag = 'X'.

ENDFORM. " load\_html\_page

\*&-----\*

\*& Form get\_current\_url

\*&-----\*

\* Get Current URL

\*-----\*

```
FORM get_current_url.
CALL FUNCTION 'HTMLCNTL_GET_CURRENT_URL'
  EXPORTING
    h_control = h_html_ctrl
  IMPORTING
    url       = url.
```

ENDFORM. " get\_current\_url

\* [Callback form for the event 'NavigateComplete'](#)

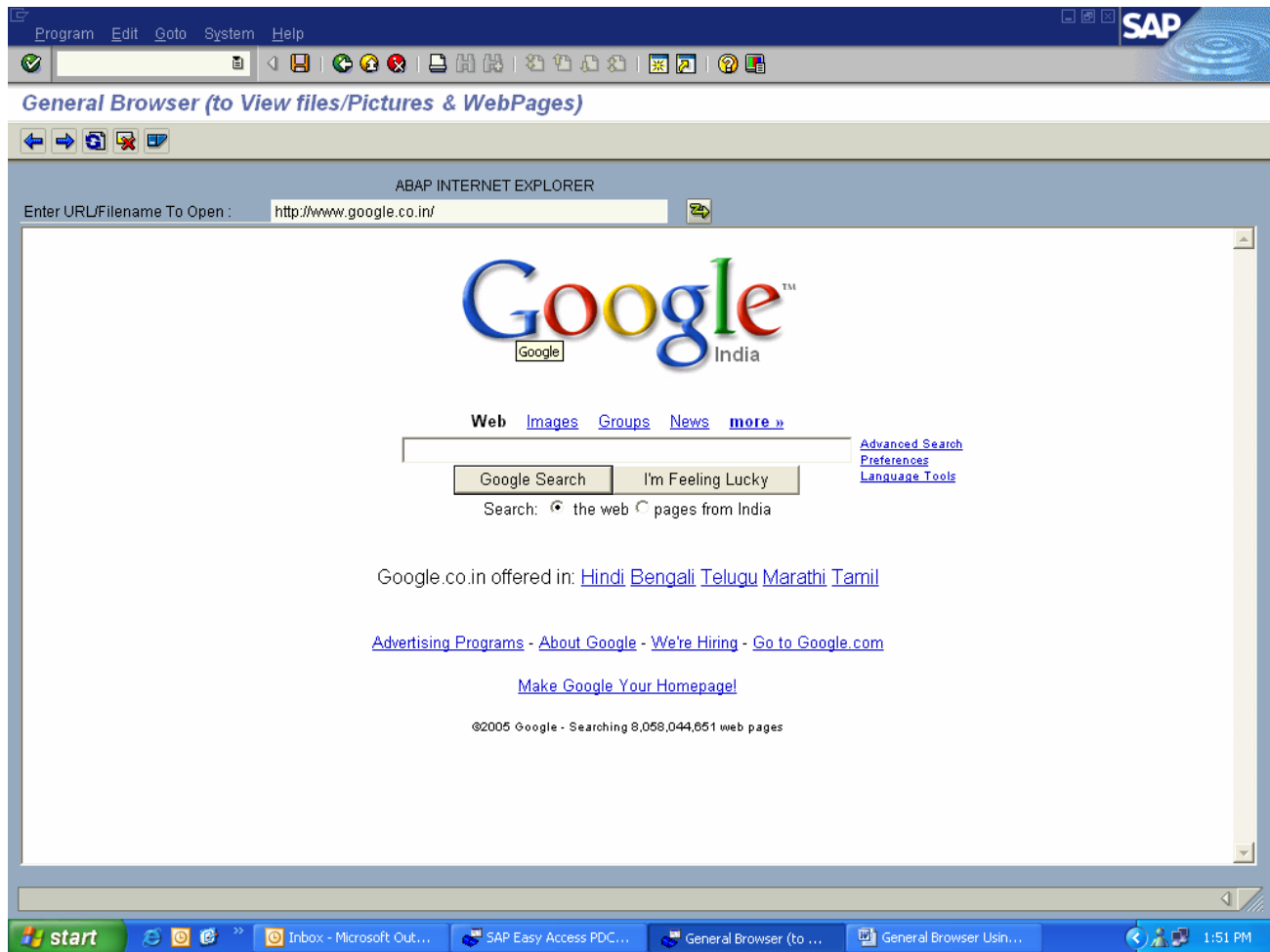
callback on\_control\_event.

```
CALL FUNCTION 'CONTROL_GET_EVENT_PARAM'
  EXPORTING
    h_control = h_html_ctrl
    param_id  = 0
  CHANGING
    return    = url.
PERFORM get_current_url.
endcallback.
```

# General Browser to View Files/Pictures & WebPages

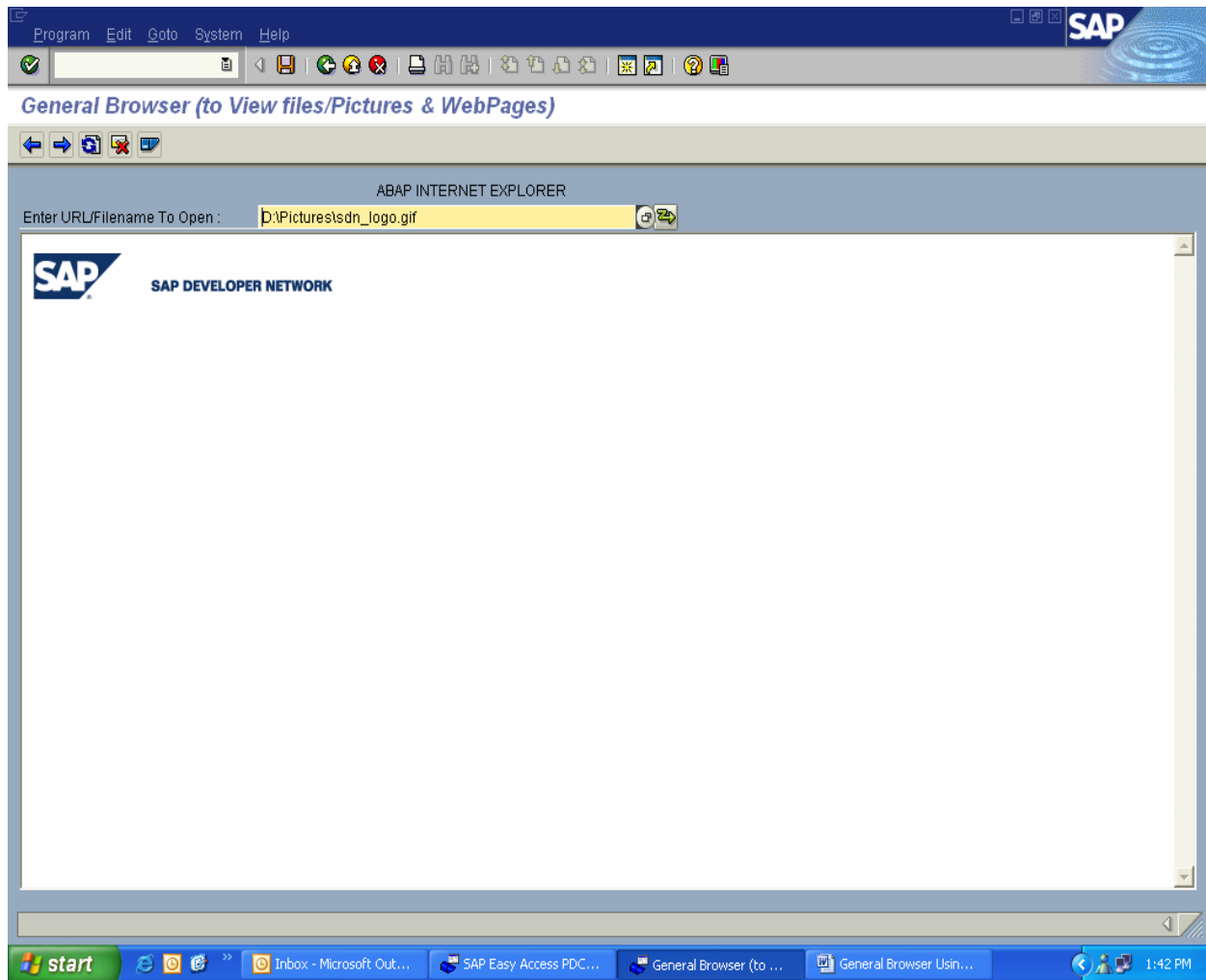
## Screen Shots

### Displaying a webpage



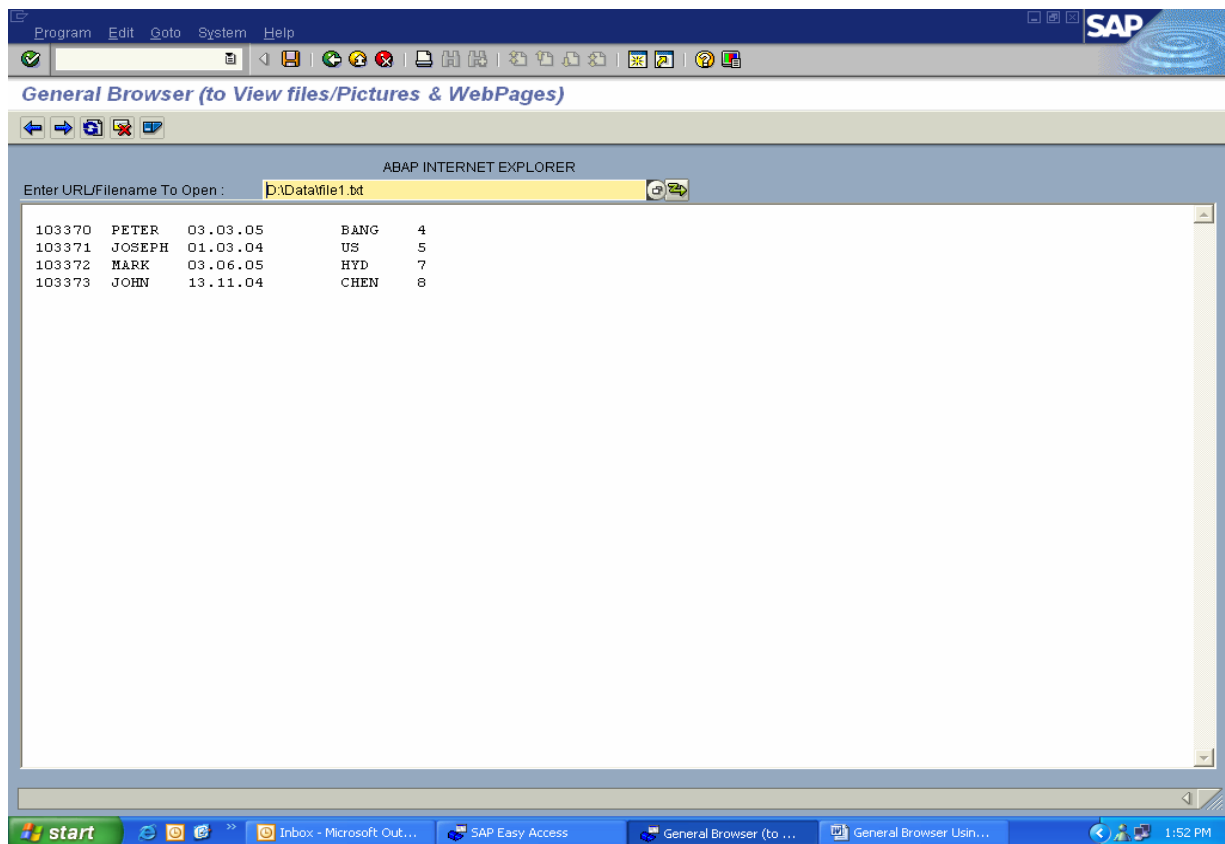
# General Browser to View Files/Pictures & WebPages

## Displaying a Picture



# General Browser to View Files/Pictures & WebPages

## Displaying a Text File



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