How to Integrate Web Dynpro ABAP in Portal and Capture Portal Logon User Name

Applies to:
This document applies to SAP ECC 6.0, SAP Netweaver 2007 and above. For more information, visit the Web Dynpro ABAP homepage.

Summary
This Article helps how to create iViews for Web Dynpro ABAP Application in SAP Netweaver Portal and helps how to capture portal Logon User Name in Our Web Dynpro Application.

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Author Bio
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Step by Step Process

Step 1: Create a Web Dynpro Component.
Got to the SE80 transaction and create a Web Dynpro Component.

Save the Component and Activate it.
Step 2: Data Binding
Go to the Component Controller and Create a node USER with cardinality 1..1 and create an attribute UNAME of type string.
Step 3: Context Mapping

Now Go to Context tab of Main View.

1. Map the context node USER from the Component Controller to the Context Root Node of the view.
2. And create a node EMPLOYEE with cardinality 1..1 and create attributes EMP_NAME and EMP_ID of type string.
Step 4: Layout Design

Now Go to Layout tab:

1. Create label with text ‘portal logon Uname’ and
2. Create an input field Emp_name and bind it to EMP_NAME of EMPLOYEE node.
3. Create label with text ‘Employee ID’ and
4. Create an input field Emp_id and bind it to EMP_ID of EMPLOYEE node.

Step 5: Create Application

Save and Activate the Web Dynpro Component. Create the Web Dynpro Application and Save it.
Creating iView

Step 1: Log on to SAP Netweaver portal

Step 2: Go to Portal Content under Content Administration tab

If you don’t have access to Content Administration tab, ask your basis team to give authorization for Content Administration tab.
Step 3: Create Folder

Now Right click on Portal Content and create a new folder.

Enter Folder Name, Folder ID and Folder ID Prefix and Click on Finish.
Step 4: Create iView

Now Right Click on the Created Folder and create a new iView.

Step 4.1: iView source type.

Select 'iView template - create an iView from an existing iView template' and press the next button.
Step 4.2: iView template.

On the next screen select ‘SAP Web Dynpro iView’ as the template and press the next button.

Step 4.3: iView Name and ID.

Now give iView name, iView ID, iView prefix ID and click on Next button.
In the Next Screen Select Definition Type as **ABAP** and Click on Next.

Step 4.4: Web Dynpro and system details

Now input the web dynpro details and the system it is created on. Please note this is the name of the actual application created within the web dynpro component, which may or may not be different.
In the same screen input the Application parameter (IV_USER=<User.LogonUid>) as shown below and press the Next button.

Here, IV_USER is the name of parameter and <User.LogonUid> is the value of the parameter which contains the portal logon user ID.

Step 4.5: review iView details

You should now get a screen showing the important information you have just entered regarding your new iView. Press the finish button and you’re done, your iView has been created.
Step 4.6: Test your new iView

Your iView should now appear in the portal content folder you created it in. To view or edit its details double click on it. To test right click on it and select ‘Preview’.

The Preview Should have open up a new window which contains your web dynpro.

As Shown in the above screen our Web Dynpro is opened but with empty logon user name. To Capture Portal Logon User Name in our Web Dynpro follow the below steps.
Capturing Portal Logon User Name in Web Dynpro

Step 1:
Double Click on Window of your Web Dynpro Component and goto context tab and map the USER node of Component Controller to Context of Window.
Step 2:

Now goto Inbound plugs of window and double click on DEFAULT plug

Within the plug method HANDLEDEFAULT Add a new importing parameter below ‘WDEVENT’ parameter. Create a parameter IV_USER of type STRING

Now within the code section of the plug method HANDLEDEFAULT you can freely assign the value of IV_User to an attribute of your component controller. i.e. wd_comp_controller->userid = IV_USER.

Alternatively you could assign it to a wdp context node / attribute.

Place the below code in HANDLEDEFAULT method of window.
method HANDLEDEFAULT.

DATA lo_nd_user TYPE REF TO if_wd_context_node.
DATA lo_el_user TYPE REF TO if_wd_context_element.
DATA ls_user TYPE wd_this->element_user.

* navigate from <CONTEXT> to <USER> via lead selection
  lo_nd_user = wd_context->get_child_node( name = wd_this->wdctx_user ).

* get element via lead selection
  lo_el_user = lo_nd_user->get_element( ).

* get single attribute
  lo_el_user->set_attribute( "Setting Parameter IV_USER to UNAME of USER node
  EXPORTING
    name = 'UNAME'
    value = IV_USER ).

endmethod.

Note: this value will not be available with the WDDOINIT of your main view as WDDOINIT method of this view is called before the window HANDLEDEFAULT method. Put your code into the method WDDOMODIFYVIEW of your main view instead.

Step 3:

Now Goto Main View and place the below code in WDDOMODIFYVIEW.

method WDDOMODIFYVIEW.

  if first_time = 'X'. "to avoid modification of view each time

  * Data Declaration for User node
    DATA: lo_nd_user TYPE REF TO if_wd_context_node,
      lo_el_user TYPE REF TO if_wd_context_element,
      ls_user TYPE wd_this->element_user,
      lv_uname LIKE ls_user-uname,

  * Data Declaration for Employee Node
    lo_nd_employee TYPE REF TO if_wd_context_node,
    lo_el_employee TYPE REF TO if_wd_context_element,
    ls_employee TYPE wd_this->element_employee,
    lv_emp_email TYPE string,
    lv_tmp_empid TYPE char10.

  * Get Portal Log On User Name ( which is already set
  * to uname attribute of user node in Handle Default
  * method of window )
lo_nd_user = wd_context->get_child_node( name = wd_this->wdctx_user ).
lo_el_user = lo_nd_user->get_element( ).

* get single attribute
  lo_el_user->get_attribute(
    EXPORTING
    name = `UNAME`
    IMPORTING
    value = lv_uname ).

* Translating uname to lower case... by default the user name from portal is in upper case

  translate lv_uname to lower case.
  concatenate lv_uname '@enteg.com' into lv_emp_email.
  translate lv_emp_email to upper case.

* Getting Employee ID corresponding to the logged in person.

  select single a~pernr into lv_tmp_empid from pa0000 as a
  inner join pa0105 as b
  on a~pernr = b~pernr where a~stat2 = '3'
    and a~enda > sy-datum
    and b~usrid_long = lv_emp_email.

  lv_tmp_empid = lv_tmp_empid+3(5).
  concatenate 'E' lv_tmp_empid into lv_tmp_empid.

* Setting the retrieved uname from portal to employee name

  lo_nd_employee = wd_context->get_child_node( name = wd_this->wdctx_employee ).
  lo_el_employee = lo_nd_employee->get_element( ).
* set single attribute
  lo_el_employee->set_attribute(
    name = `EMP_NAME`
    value = lv_uname ).

* Setting Employee ID.
  lo_el_employee->set_attribute(
    name = `EMP_ID`
    value = lv_tmp_empid ).

endif.
endmethod.
Step 4:

Double click on the Webdynpro Application; within the Parameters tab add a new parameter. You should just be able to use the F4 help on the parameters column and select the IV_USER entry.

Save your application and activate your web dynpro.
Result:

Now Log in to Portal

Right Click on the Created iView and Click on Preview.
This opens your Web Dynpro with Portal User Name Captured

Conclusion

Here I demonstrated a simple Web Dynpro Application. This helps to Show/Hide, Enable/Disable UI Elements in our Web Dynpro based on the portal Logon User.

With this I Integrated Employee Leave Request Web Dynpro Application in Portal.
## How to Integrate Web Dynpro ABAP in Portal and Capture Portal Logon User Name

### SAP COMMUNITY NETWORK
- **SDN**: sdn.sap.com
- **BPX**: bpx.sap.com
- **BOC**: boc.sap.com
- **UAC**: uac.sap.com

### HR Talent Management -> Leave Request

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Request Created By</td>
<td>Harjani Harshdeep Singh</td>
</tr>
<tr>
<td>Employee ID</td>
<td>HX240104</td>
</tr>
<tr>
<td>Leave From Date</td>
<td>2023-01-01</td>
</tr>
<tr>
<td>Leave To Date</td>
<td>2023-01-02</td>
</tr>
<tr>
<td>Number Of Days</td>
<td>1</td>
</tr>
<tr>
<td>Priority</td>
<td>Medium</td>
</tr>
<tr>
<td>Project Type</td>
<td>Select</td>
</tr>
<tr>
<td>Project Name</td>
<td></td>
</tr>
<tr>
<td>Contact Number</td>
<td></td>
</tr>
<tr>
<td>Business Process</td>
<td>HR Talent Management</td>
</tr>
<tr>
<td>Sub Process</td>
<td>Leave Request</td>
</tr>
<tr>
<td>Attachments If Any</td>
<td>Choose File</td>
</tr>
</tbody>
</table>

### Notes:
1. Working on compensatory off or holiday requires written confirmation from EntwpRMD.
2. For Project Name: If currently not in a project, please enter Last completed (recently left) project name.
3. Please mention any other comments in Remarks.
4. Please give contact number which will be available at the time of your leave.

* Asterisk (*) indicates mandatory field.
Related Content

How to Create Web Dynpro-Based iViews

Binding To Portal - SAP Help

Creating Web Dynpro ABAP iViews - SAP Help

For more information, visit the Web Dynpro ABAP homepage
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