# Creating Navigations and Embedding Views at Runtime -Web Dynpro ABAP



## **Applies to:**

SAP ECC 6.0 (Release 700, SP 12). For more information, visit the <u>User Interface Technology homepage</u>.

## **Summary**

This Article is all about embedding views in window and creating navigations between the views dynamically at runtime. It is necessary to know because most of the applications require such a kind of design where the views and navigations are not fixed at design time rather at runtime.

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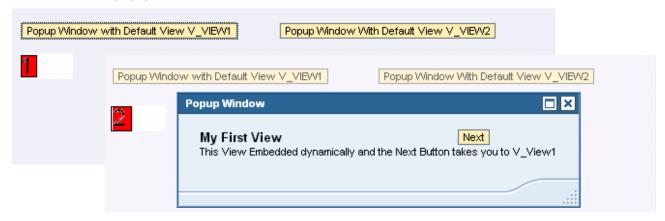
#### Introduction

Some of the business scenarios require such a design where the navigations and views to be shown are not fixed at design time; it is only possible at runtime. In Web Dynpro embedding views in window and creating navigation link all managed as metadata, the code for which is generated at runtime.

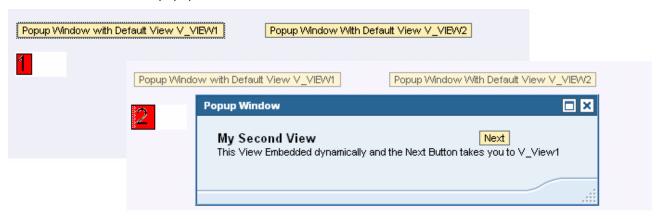
## **Get Started with an Application**

The Goal of the application is to embed views in window and create navigation between the views dynamically.

- 1. Click on the first button
- 2. Shows a popup window with one view embedded as default



- Click on the second button
- 2. Shows the same popup window with another view embedded as default.

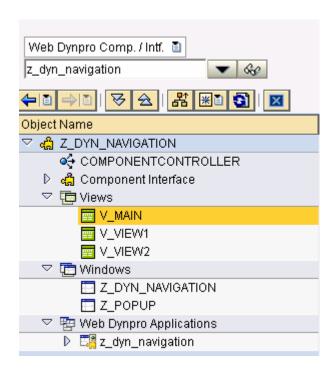


#### **Building the Base Application**

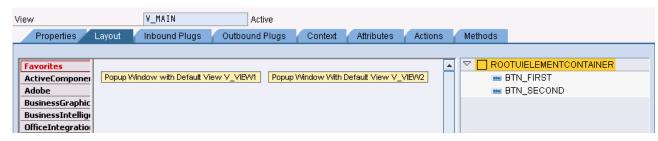
1. Create a Web Dynpro Component of the following structure hierarchy, where it contains:

3 views - V\_MAIN, V\_VIEW1, V\_VIEW2

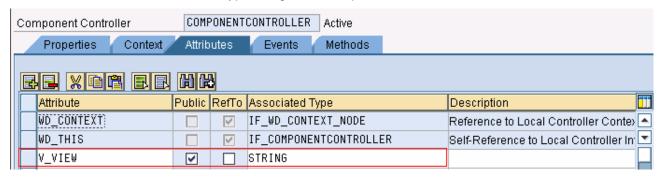
2 windows - Z DYN NAVIGATION, Z POPUP



2. Design the V\_MAIN as follows



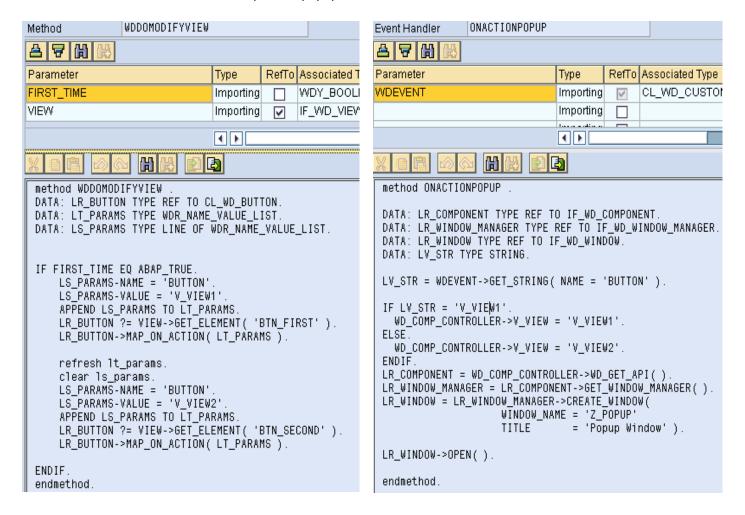
- 3. Create one Action 'POPUP' and assign to both the buttons.
- 4. Create an Attribute 'V\_VIEW' of type string in the component controller.



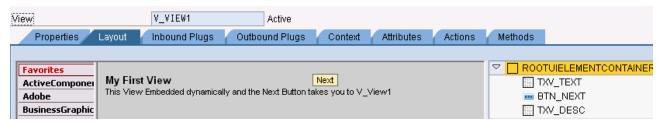
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- 5. Place the code in the WDDOMODIFYVIEW of V\_MAIN, where it is mapping parameter to the buttons
- 6. Also, place code in ONACTIONPOPUP event handler to capture the source mapping parameter and set the attribute V VIEW and open the popup window Z POPUP.



7. Design V\_VIEW1 and V\_VIEW2 as follows, create Inbound Plug 'IN' and Outbound Plug 'OUT' in both the views and on button click fire the 'OUT' plug. ( remember the navigation link is created when you embed the views in window )



8. Place V\_MAIN view in Window Z\_DYN\_NAVIGATION. (Do not place any view in Z\_POPUP)

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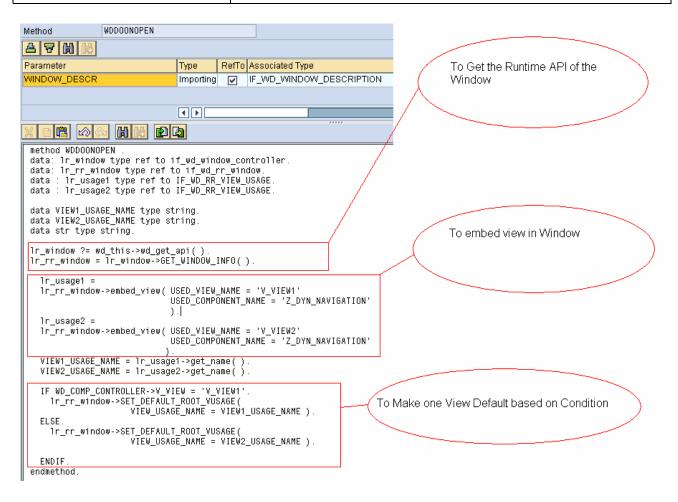
# **Embedding the Views in Window Dynamically**

Place the following code sample in WDDOONOPEN of Z\_POPUP window.

In this window we have not placed any View, we are going to place the views using the following API

## IF\_WD\_RR\_WINDOW -> Runtime Repository API: Window

EMBED_VIEW	Temporarily Embeds View in Specified Position
SET_DEFAULT_ROOT_VUSAGE	Sets Temporary Default View



# **Creating Navigation Link Dynamically**

Use the following code to create navigation link between the embedded views, for which we can use the method CREATE\_NAVIGATION\_TARGET of the Runtime API of window .

Append the following code to WDDOOPEN method of window  $Z_POPUP$ , to navigate between  $V_VIEW1$  and  $V_VIEW2$  in the  $Z_POPUP$  popup window.

# **Summary**

To work with dynamic navigations and embedding views, the API involved

IF WD RR WINDOW and IF WD RR VIEW USAGE

#### **Related Content**

The Dynamic Navigation is implemented in SAP Standard Component LORD\_MAINTAIN\_COMP, which replaces the SAPGUI transactions for sales order processing VA01 through VA05.

https://www.sdn.sap.com/irj/sdn/go/portal/prtroot/docs/library/uuid/6081997d-b33d-2a10-2ea5-f945b3467927

For more information, visit the <u>User Interface Technology homepage</u>.

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