Generating a Popup Window in Web Dynpro ABAP

Applies to:
Web Dynpro ABAP. For more information, visit the User Interface Technology homepage.

Summary
This tutorial explains the method to trigger a Popup Message when triggered through a Web Dynpro.

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Creation of Nodes

Create a Node and attribute within the context of your Component Controller as shown in the below screen shots. In this case, the main view is ‘MAIN’ and the Node and Attribute used for our example are ERROR_MSG and TEXT respectively.

Node Name: ERROR_MSG

Interface Node: No

Input Element (Ext.): No

Dictionary structure: 

Cardinality: 1..1

Selection: 0..1

Init Lead Selection: Yes

Singleton: No

Supply Function: 

Add Attribute from Structure: 

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Create Attribute

Attribute Name: TEXT

Type assignment: Type
Type: String
Read-only: No
Default Value:

Input Help Mode: Automatic
Determined Input Help:
Type of Input Help:

OK | Cancel
Creation of New View for the Error Message

A new view is created within the Web Dynpro component for displaying the error message. Here the view is mentioned as ERROR_VIEW.

Map the context of the component controller to the context of the view

Drag and Drop
We will create a new Text View within this view so that we can give the error message. The text view is bound to the context element 'ERROR_MSG'.
Creation of a New Window

A New window is created as shown below.

The view is embedded within the window.
Code for Calling the Popup Window

For calling the popup window in Web Dynpro, the following code is to be implemented.

```abap
DATA lv_text LIKE ls_error_message_text.
DATA lv_msg(25) TYPE c VALUE 'ERROR! Please Check Input'.
DATA lo_nd_error_message TYPE REF TO if_wd_context_node.
DATA lo_el_error_message TYPE REF TO if_wd_context_element.
DATA ls_error_message TYPE wd_this->element_error_msg.
DATA lo_window_manager TYPE REF TO if_wd_window_manager.
DATA lo_api_component TYPE REF TO if_wd_component.
DATA lo_window TYPE REF TO if_wd_window.

lv_text = lv_msg.
*raise the above error message in the window by passing it to the context and calling
the function
  * navigate from <CONTEXT> to <ERROR_MESSAGE> via lead selection
  lo_nd_error_message = wd_context->get_child_node( name = wd_this->wdctx_error_msg ).
  * get element via lead selection
  lo_el_error_message = lo_nd_error_message->get_element( ).
  * get single attribute
  lo_el_error_message->set_attribute( EXPORTING
    name = 'TEXT',
    value = lv_text ).
lo_api_component  = wd_comp_controller->wd_get_api( ).
lo_window_manager = lo_api_component->get_window_manager( ).
lo_window        = lo_window_manager->create_window(
window_name = 'ERROR1'
title = 'Error'
message_display_mode = if_wd_window=>co_msg_display_mode_selected
close_button = abap_true
button_kind = if_wd_window=>co_buttons_ok
message_type = if_wd_window=>co_msg_type_none
default_button = if_wd_window=>co_button_ok
).
lo_window->open( ).
```
Related Content

Blog: Controlling External Windows
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For more information, visit the User Interface Technology homepage.
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