

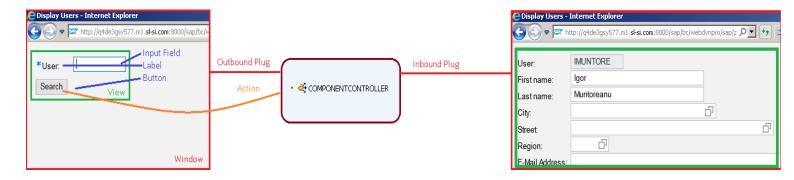
Version 1.0

Date 27.06.2016 Status In Development

Number 1

Initial version by Igor Muntoreanu

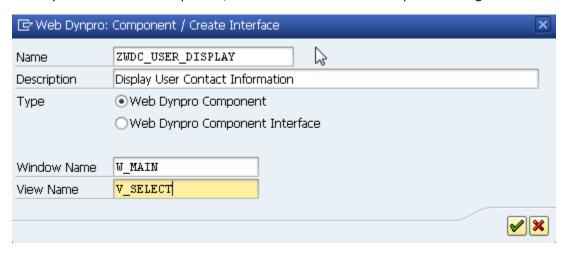
Exercise Review:



Practical Guide:

1) Go to SE80 (that is the transaction that you are going to manipulate all the WebDynpro ABAP components) and create a WebDynpro Component:

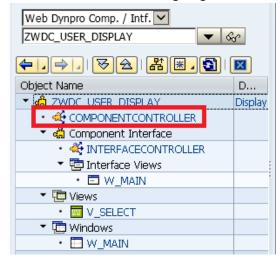
When you create a WD Component, a Window and a View are required to be generated too.



2) Manipulating the Component Controller

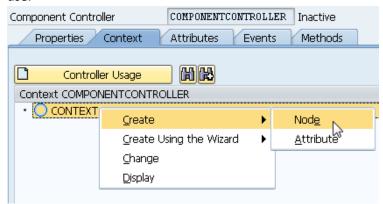
The Component Controller is always just one. It drives the functionality of the entire component. When starting a WebDynpro application, the component controller is instantiated by the WebDynpro runtime.

a. Double click on the following target:

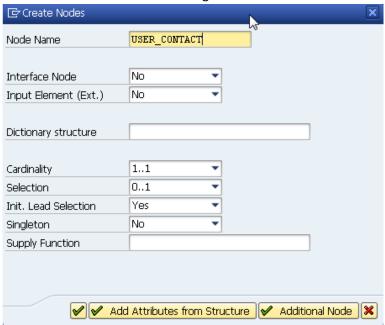


b. Inside the context of the COMPONENTCONTROLLER, tab Context, create a NODE: NODE is a group of Attributes all together.

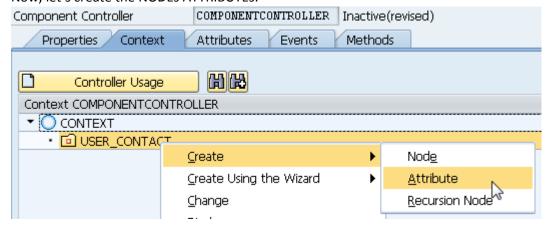
CONTEXT is the place where you defined what NODES/ATTRIBUTES the current Component is going to use.



c. Create the NODE like the following Screen Shot:



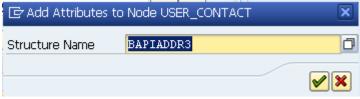
d. Now, let's create the NODEs ATTRIBUTEs:



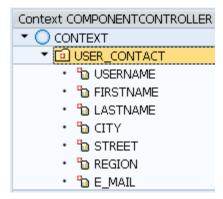


You can create one attribute at time. In this case, let's use the WIZARD to bring all the attributes we want automatically:



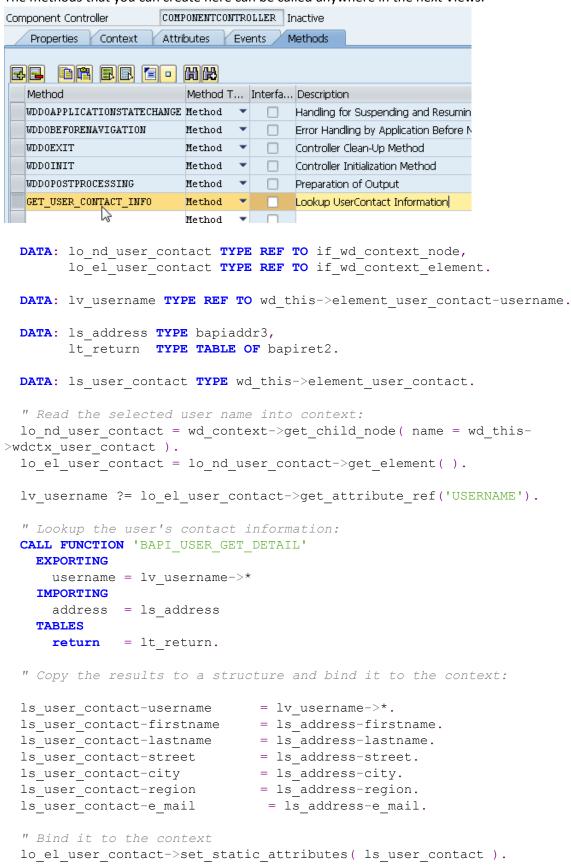


Select the fields and bring the following ATTRIBUTES:



e. Create a Lookup Method in the "Methods" tab and implement the following code (Do not pay attention to the code now, just copy and paste for while):

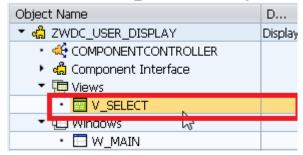
The methods that you can create here can be called anywhere in the next Views.



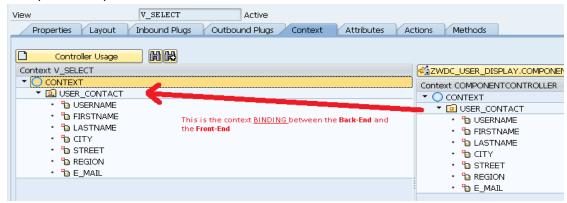
3) Laying out the Selection View - Front End:

The View is the place where you create the Front End Webpage.

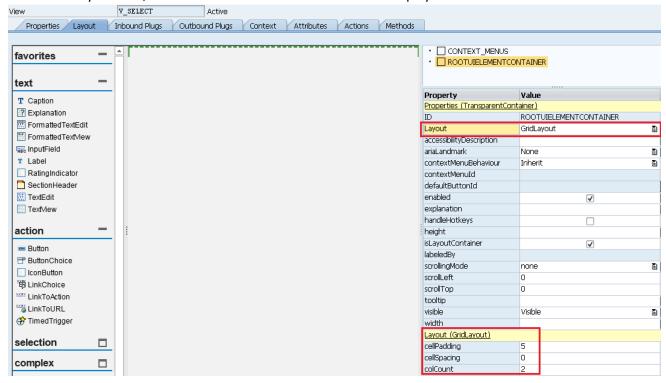
a. Double Click on the V_SELECT view and go to the "Context" tab:



b. Drag and drop the NODE from the COMPONENTCONTROLLER(on the right) to the Context of the View(on the left).



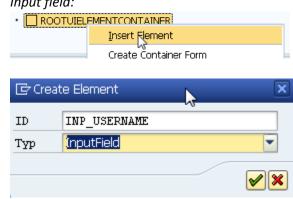
c. Go to the "Layout" tab, set the ROOTUIELEMENTCONTAINER as displayed below:



In the "Layout" tab you will be able to define all the Webpage Screen Elements and their layouts.

So, let's create an Input field, a Label and a Button:

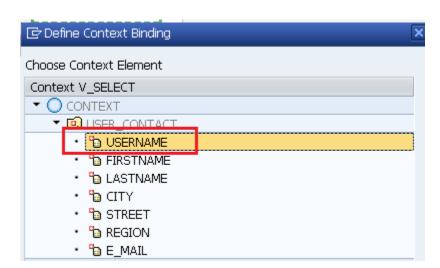
- Input field:



Bind the "value" Property:



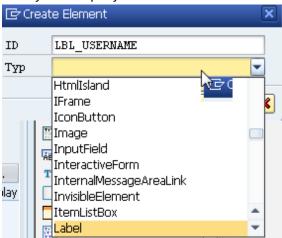
Choose the USERNAME attribute from the Context Element



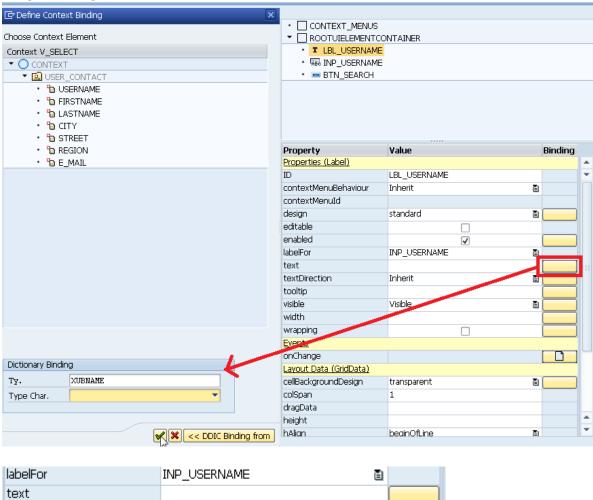
Make the field required:



- Label for the Input field:



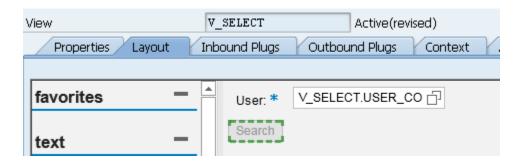
Links the Label with the Input field in the property "labelFor". Give a text to the label linking it by using the Biding with a Data Element. It will take the text direct from the Table/Structure:



- Button:



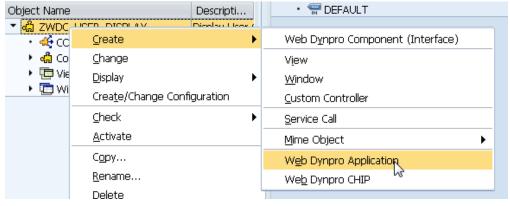
The final result of the view layout should be like this:



4) Create the WebDynpro Application

Analogously, it is like generating a transaction for a Report.

a. Create the WebDynpro Application like showed below (it generates automatically an URL for the application if all the BASIS configuration in SCIF transaction are ok).





Make sure to Save and Activate your development times in times:



Run the WDA (WebDynpro Application):



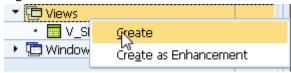
The webpage will open:



As you can see that is no functionality yet. The next steps will create them.

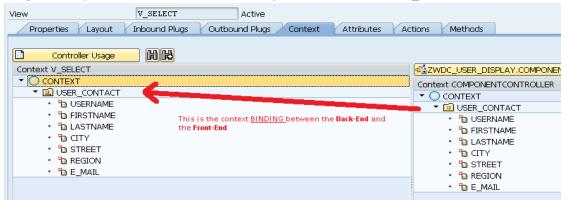
5) Laying out the Details View - Front End:

a. Right click on "Views" and create a new one like showed below:

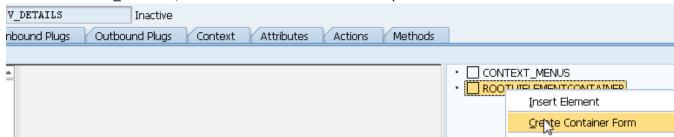


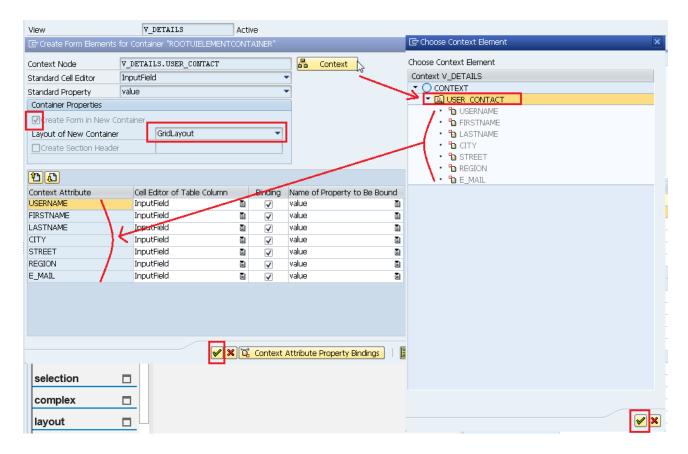


b. Drag and Drop the context for this view also, just like we did in the V_SELECT view:

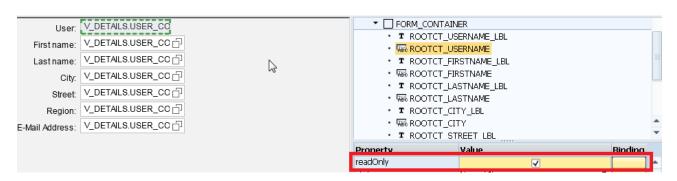


c. Inside the view "V_DETAILS", create a "Container Form" in the layout tab:





Set the Input Field "USERNAME" as read-only:



Set property "isLayoutContainer" from FORM_CONTAINER marked:

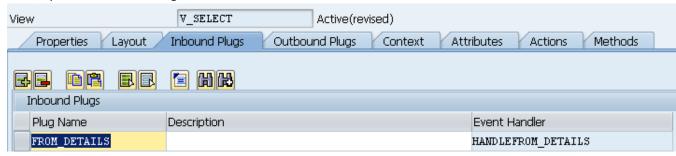


6) Outbound Plug in the V_SELECT View (Plugs are nothing more than Navigation specification between the Views).

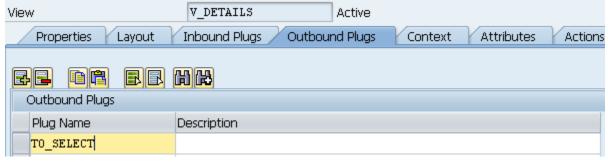
a. Open the V SELECT View and in the tab Outbound Plugs and create a Plug like below:



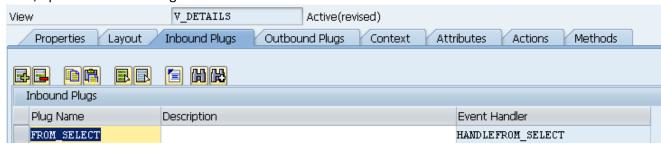
b. Now, open the Inbound Plugs and create like below:



- 7) Inbound Plug in the V DETAILS View
 - a. Open the V_DETAILS View and in the tab Outbound Plugs create a plug like below:

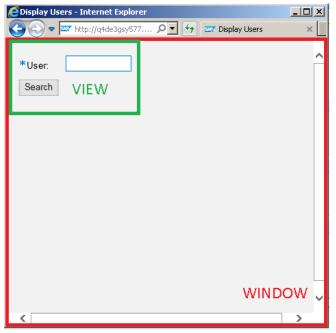


b. Now, open the Inbound Plugs and create like below:



8) Window Manipulation

A Windows is different from the view, take a look on the following SS:

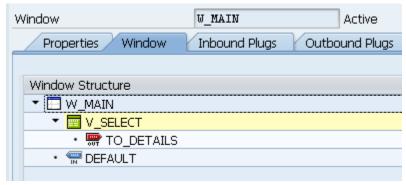


The Window can have a lot of Views together.

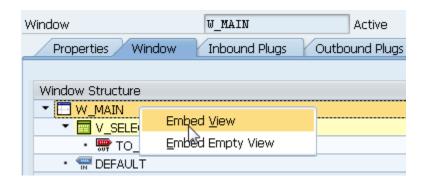
a. Go to the Main Window:



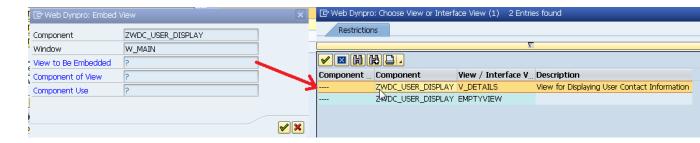
b. Here we need to create the relations between the Views via the Inboud/Outbound Plugs:



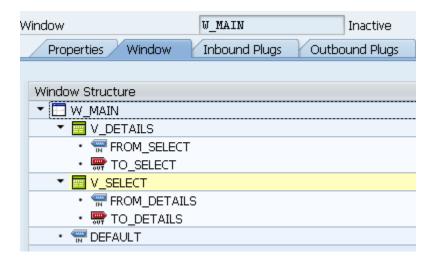
Right click on W_MAIN and choose "Embed View":



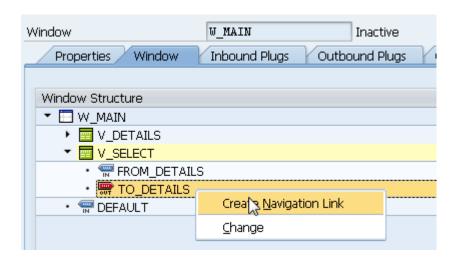
Select the V_DISPLAY view to be Embedded like the SS below:

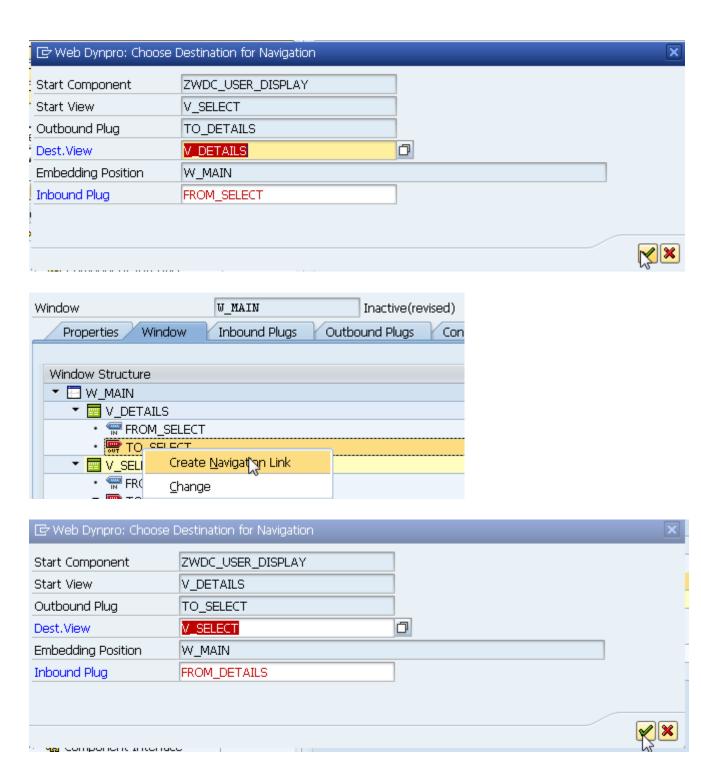


Your Window configuration will be like this:



Now its necessary to create the link between the Plugs, by creating a Navigation Link:





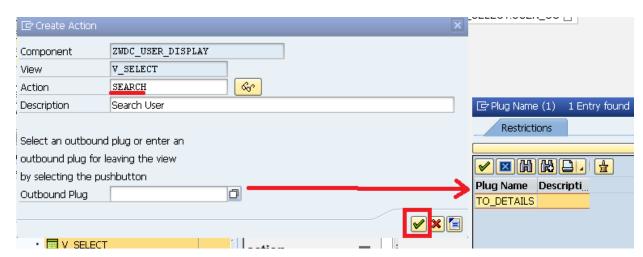
9) Create an ACTION to the SEARCH Button.

a. Enter in the V SELECT View and Click 2x In the SEARCH Button:



Create a new Action for the button:





Now enter in the Actions tab and click twice in the new action created:



The coding brings automatically:

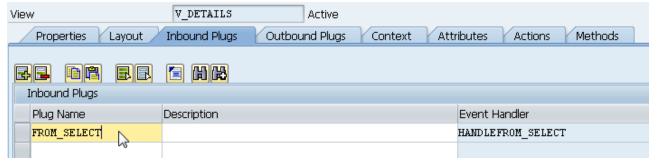
```
method ONACTIONSEARCH .

wd_this->fire_to_details_plg(
 ).

endmethod.
```

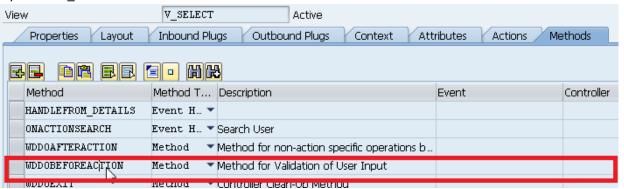
10) Coding in the View V_DETAILS under Inbound Plug

a. We will call the created method GET_USER_CONTACT_INFO



11) Using a Pre-Defined Method to promotes validations.

- a. In our case despite of the field USERNAME of the view V_SELECT is mandatory, it is necessary to create a validation for that differently from common Reports for example.
- b. Open the V SELECT view and select WDDOBEFOREACTION:



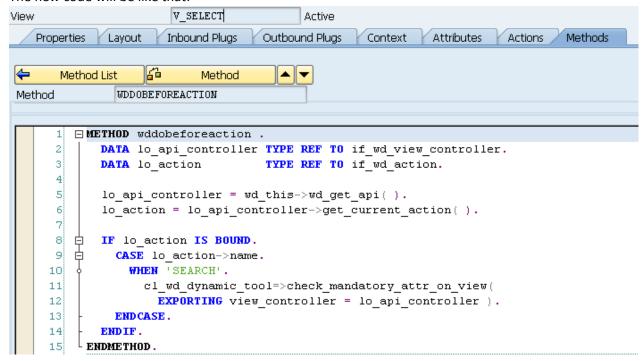
c. As you can see a pre-code is already defined. We will take it:

```
□ nethod WDDOBEFOREACTION .

\[
\phi \text{data lo api controller type ref to if wd_view_controller.
\]

3
      data lo action
                          type ref to if wd action.
4
5
  6
      lo action = lo api controller->get current action( ).
7
8
  9
       case lo action->name.
          when '...'.
10
11
12
  ڧ *
        endcase.
13
       endif.
    endmethod.
14
```

d. The new code will be like that:



- **12)** The WebDynpro is finally done, let's check it out:
 - a. Go to the WDA and run it.



b. This is the V_SELECT view



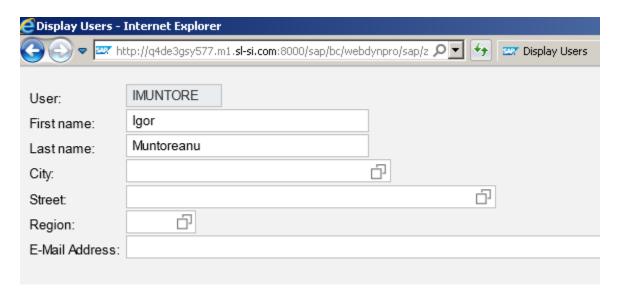
Click on Search without typing the user:



Now put some valid value and execute:

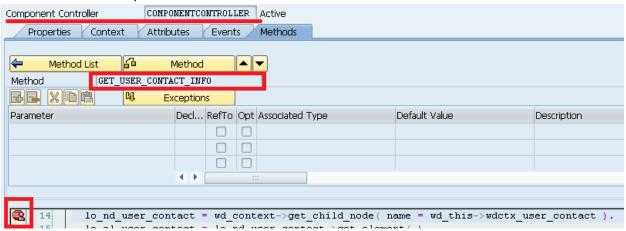


This is the V_DETAILS view.



13) Debugging Tool Tips:

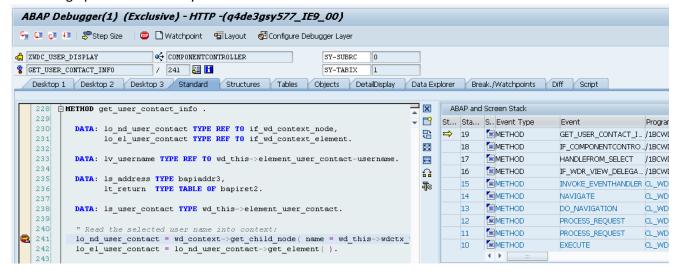
a. Put an external break-point in the method WDDOBEFOREACTION



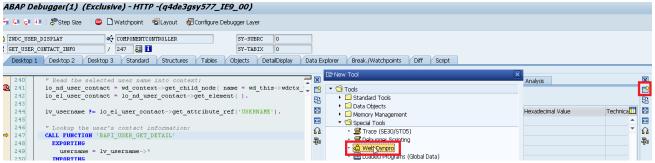
b. Now, execute the WDA:



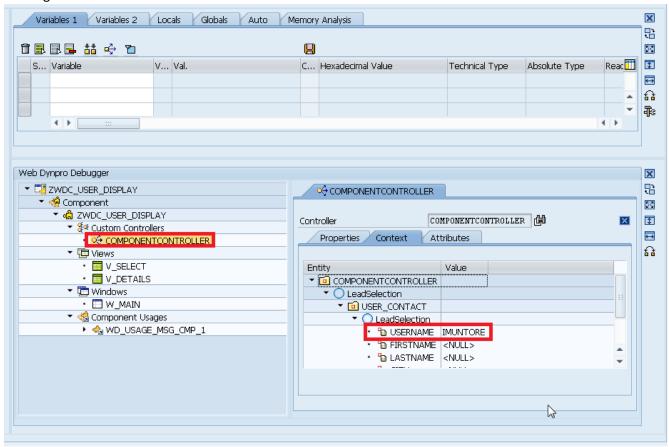
c. The debug opens automatically:



Go ahead with F6 pressing, until the BAPI calling. Call the debug special tool for Debug:



Your screen will be like the SS showed below. It is a very powerful that helps a lot during problems investigation:



14) Homework:

- a. Create a button in the V_DETAILS to return to the V_SELECT view.
- b. Create a validation if the entry data is valid. If not display a POP UP and freeze in the V_SELECT view.