

Generic User Interface Services

Exercise



Chapter: Generic UI Services

Theme: Simple Value Selector



At the end of this Exercise, you are able to:

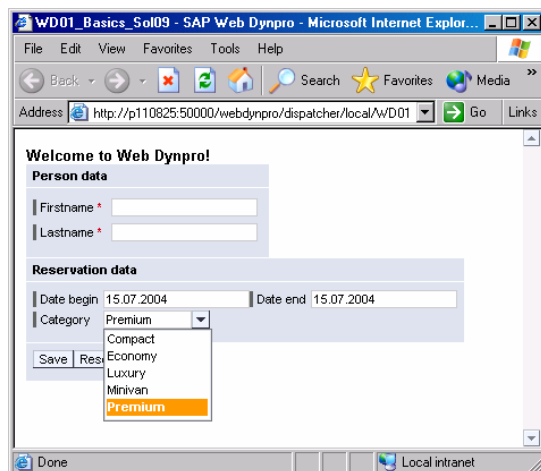
- Define Simple Data Types in the Java Dictionary.
- Create a Simple Value Selector.

1 Development Objectives

Value Help

The Web Dynpro runtime environment provides generic UI services for the application development. They enable you to create a value help for constants easily – for example, for countries or zip codes. You can use the simple value selector as a dropdown list box to display a set of constants when you bind a DropdownByKey UI element to a value attribute of the type Simple Type. The simple value selector is especially useful for small sets of constant values (up to 30 entries).

2 Result



In this exercise you will define a single view, containing a dropdown list box, which displays the constants for vehicle types (for example, economy, compact, minivan, and so on).

The set of valid values in the input field is restricted to key entries of a predefined set of constants from the Java Dictionary.

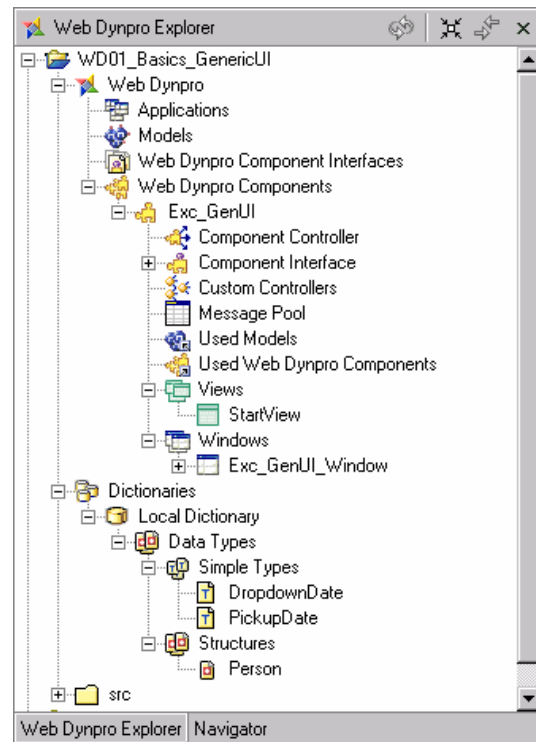
3 Prerequisites

You have launched the SAP NetWeaver Developer Studio.

You have selected the Web Dynpro perspective.

You have opened the *WD01_Basics_GenericUI* project.

The structure this project is currently displayed in the *Web Dynpro Explorer*.



For your convenience, you can start developing with a predefined view. Expand the node *Exc_GenUI*.

The graphic on the left shows the predefined project structure of this exercise.

4 Overview: Developing

- 4-1 Define a simple data type called *VehicleType* in the Java Dictionary. Add five car types to the data type (e.g. MNVN / Minivan).
- 4-2 Declare a value attribute *ctx_vehicleType* of the type *VehicleType* in the context of the view controller.
- 4-3 Define a *DropDownByKey* UI element with a corresponding Label in the Layout of the view controller. There is a group element already defined, which will serve as a container (*ctx_vhclType*). Define the data binding between the *DropDownByKey* UI element and the value attribute *ctx_vehicleType*.
- 4-4 Create the Web Dynpro application *WD01_Basics_GenericUI*.

5 Overview: Building, Deploying, and Running

Deploy and run the Web Dynpro application.

6 Optional 1:
Add an image UI element and change its visibility depending on the selected value



As a result of this exercise, an image will be displayed depending on selected value of the simple value selector.

- 6-1 Declare two new value attributes *ctx_imgAlt* and *ctx_imgSrc* in the context of the view controller.
- 6-2 Add an Image UI element to the vehicle type group *grpVehicleType* and bind the context attributes *ctx_imgAlt* and *ctx_imgSrc* to it (properties *alt* and *source*).
The image is not visible, when the application starts. After the user has selected a value from the simple value selector a corresponding image should appear (after having completed the next steps).
- 6-3 In the Implementation part, define a new static variable *image* to refer to the image UI element and to change its visibility programmatically.
- 6-4 Initialize the *image* variable in method *wdDoModifyView(...)*. The value of an UI Element can be obtained from the method *view.getElement(...)*.
- 6-5 Define a new action *ShowImg* and assign this action to the *DropDownByKey* UI element. The corresponding method is called automatically, when the user selects a new value from the simple value selector.
- 6-6 Implement the Method *onActionShowImg()*: Define the images name from the entry in the *DropDownByKey* UI element, by adding the ending *.gif*.
- 6-7 Build, deploy and run the application.