

Designing Component-Based Web Dynpro Applications (38)

Overview

This set of Web Dynpro Development Components (Web Dynpro DCs) demonstrates how to design component-based Web Dynpro applications using separate Web Dynpro DCs.

In a simple application we demonstrate how to embed the visual interface of a Web Dynpro component into a parent component within one single Web Dynpro DC.

Another advanced application demonstrates how to apply the model-view-controller paradigm on a DC level for logically structuring large-scale Web Dynpro applications. One root component embeds two separate user interface components which both use a single model component in referencing mode. The lifecycle of the UI and the model components are managed by the root component. This scenario is based on three separate Web Dynpro DCs.

Requirements

You have installed the Sneak Preview SAP NetWeaver '04 (SP11, Java Edition). All provided local Web Dynpro DCs are based on this version.

Local Development Component Names

Web Dynpro DCs: LocalDevelopment~cd355~comp~adv* and LocalDevelopment~cd355~comp~simple*. Final versions of the contained exercise DCs end with the name suffix _final.

Instructions

To get the contained Web Dynpro applications running, proceed as follows:

1. Extracting the local Web Dynpro DCs into the development workspace
 - a. Unzip the complete contents of the zip file "38TutWD_Components.zip" into your local development directory .dtc wherein all local DCs are stored.

Example: Your local development folder comprising all local DCs is C:\Documents and Settings\\.dtc\. Unzip the zip file "38TutWD_Components.zip" into this folder.

2. Importing the local Web Dynpro DCs into the SAP NetWeaver Developer Studio
 - a. Start the SAP NetWeaver Developer Studio.
 - b. Open the Development Configurations perspective ("Window"|"Open Perspective"|..."Development Configurations").
 - c. Select the view "Local DCs" and open the node "Local Development"|"My Components".
 - d. Refresh the perspective view "Local DCs" by pressing the button "Refresh tree" within the title bar.
 - e. Multi-select all DCs whose name starts with cd355/comp.
 - f. Open the context menu of the selected nodes and choose "Create Project".
 - g. Open the context menu of the selected nodes and choose "Build ...".
 - h. In the "Build Development Component" window mark all listed development components, uncheck the check box "Only build if necessary" and choose "OK".
 - i. Open the Web Dynpro perspective ("Window"|"Open Perspective"|..."Web Dynpro").

The Web Dynpro DCs LocalDevelopment~cd355~comp~adv~master~sap.com,

...~adv~model~sap.com, ...~adv~ui~sap.com, ...~simple~main~sap.com and the related final versions will appear in the "Web Dynpro Explorer" view.

Note:

Depending on which Java compiler preferences are set, you may see some warnings in the "Task" view after importing the project.

If the severity level for problems of type "Unused imports" (set in Preferences – Java – Compiler) has the value "Warning", the compiler will issue a warning for unused import references.

Ignore these warnings!

3. Deploying the final Web Dynpro development components which demonstrate a component-based architecture.
 - a. Make sure that your SAP J2EE Engine is running. If necessary, refer to the topic "Building, Deploying and Running Your Application" in the tutorial.
 - b. Open the Development Configurations perspective ("Window"|"Open Perspective"|..."Development Configurations").
 - c. Select the view "Local DCs" and open the node "Local Development"|"My Components".
 - d. Multi-select all DCs whose name start with "cd355/comp" and end with "_final"
 - e. Open the context menu of the selected nodes and choose "Deploy".
4. Running the advanced and the simple Web Dynpro application on Web Dynpro Componentization.
 - a. Open the Web Dynpro perspective ("Window"|"Open Perspective"|..."Web Dynpro").
 - b. Open the context menu of the node "LocalDevelopment~cd355~comp~adv~master_final~sap.com"|"Web Dynpro"|"Applications"|"AdvancedApp" (or "LocalDevelopment~cd355~comp~simple~main_final~sap.com"|"Web Dynpro"|"Applications"|"SimpleApp" for the simple application)
 - c. Chose "Run".

Corresponding Tutorial

SAP Developer Network (sdn.sap.com) → Developer Areas: Web Application Server – Web Dynpro → Code Samples: Sample Applications and Tutorials → Designing Component-based Web Dynpro Applications.

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