

Building a simple Calculator J2EE Application

Overview

This example implements a simple Calculator application. The main goal of the sample is to show how to use the J2EE toolset in the SAP NetWeaver Developer Studio, and how to arrange development sources (JSP, Servlets, EJBs, etc.) in different kind of projects when building the J2EE applications.

The Calculator sample also demonstrates the use of MVC pattern. The model layer is represented by the Calculator session bean, which does the actual work – adds, subtracts, divides, or multiplies two arbitrary numbers. The Calculator JSP is the front end component providing the view of the application. Finally, the application uses a JavaBean in the controller layer for the communication between the front-end and the enterprise bean.

Project Names

J2EE Projects: CalculatorEjb, CalculatorWeb, CalculatorEar

Requirements and Dependencies

None

Instructions

To get the Calculator application running, proceed as follows:

1. Importing the projects into the SAP NetWeaver Developer Studio
 - a. Unzip the complete contents of the zip file "J2EE_Calculator.zip" from the Developer Studio example folder ".../SAP/JDT/eclipse/examples/" into your local workspace directory or folder of your choice.
 - b. Start the SAP NetWeaver Developer Studio.
 - c. Open the J2EE perspective ("Window"|"Open Perspective"|"...J2EE Development") and choose "File"|"Import".
 - d. Select "Multiple Existing Project into Workspace " and choose "Next".
 - e. In the input field "Select base folder", specify the folder containing the examples. Choose "Browse" and select the examples folder.
 - f. Select the projects CalculatorEjb, CalculatorWeb, CalculatorEar and activate the option "Open Projects after import".
 - g. Choose "Finish"
 - h. Open the "J2EE Explorer" view to display the logical structure of the imported projects.
2. Deploying the Calculator application
 - a. Make sure that your SAP J2EE Engine and the Software Deployment Manager are running.
 - b. In the J2EE Explorer, expand the project tree of "CalculatorEar" and choose "CalculatorEar.ear".
 - c. Open the context menu and choose "Deploy to J2EE engine".
3. Running the Calculator application
 - a. Insert the Calculator URL into the Web Browser:
http://<host>:<port>/Calculator/Calculator.jsp (for example:
http://localhost:50000/Calculator/Calculator.jsp)

Corresponding Tutorial

SAP Web AS for J2EE Applications → Development Manual → Getting Started → Creating Your First J2EE Application.

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