

Getting Started with Java Data Objects (JDO)

Overview

This example demonstrates how to use the SAP NetWeaver Developer Studio to implement object persistence for Java based on **Java Data Objects**.

The simple example introduces the basic features of JDO, such as creating and reading persistent objects. A Web interface is used to pass the parameters to the underlying business logic, and to visualize the result for the user. The persistent layer is represented by a relational database. The Web application accesses two tables in which data about the employees and the departments in a company is stored.

Project Names:

J2EE Projects: GettingStartedJDOWeb, GettingStartedJDOEar

Dictionary Project: GettingStartedPersistenceDic

Requirements and Dependencies

Only between projects

Instructions

To get the application running, proceed as follows:

1. Importing the projects into the SAP NetWeaver Developer Studio
 - a. Unzip the complete contents of the zip files "J2EE_GettingStartedJDO.zip" and "J2EE_GettingStartedPersistenceDic.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. In the list that appears, select "GettingStartedJDOWeb", "GettingStartedJDOEar", "GettingStartedPersistenceDic" and activate the option "Open Projects after import".
 - g. Choose "Finish".
 - h. Open the "J2EE Explorer" view to display the imported J2EE projects.
2. Deploy the database tables
 - a. Open the Dictionary perspective ("Window"|"Open Perspective"|..."Dictionary")
 - b. In the "Dictionary Explorer", open the context menu of the "GettingStartedPersistenceDic" project.
 - c. Choose "Create Archive".
 - d. Make sure that your SAP J2EE Engine and the Software Deployment Manager are running.
 - e. In the context menu of the project choose "Deploy".
3. Deploying the application
 - a. In the J2EE Explorer, extend the "GettingStartedJDOEar" project node.
 - b. Open the context menu of "GettingStartedJDOEar.ear" and choose "Deploy to J2EE engine".
4. Running the application

- a. Insert the URL into the Web Browser:
http://<host>:<port>/gettingstarted-jdo (for
example: http://localhost:50000/gettingstarted-jdo/)

Corresponding Tutorial:

SAP Web AS for J2EE Applications → Development Manual → Developing Business Logic → Java Persistence → Object Persistence for Java → Java Data Objects (JDO) → Getting Started with JDO.

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