

Java Training: Enterprise Java Beans from Services to Data (JEJB, 4 jours)

Description

The course Enterprise Java Beans from Services to Data (Java Training) is a complete exploration of Enterprise Java Beans (EJB). Starting with a review of JEE and enterprise development, the course seamlessly moves onto Session Beans (stateless and stateful), Entity Beans and Message Driven Beans. The training also includes JNDI, JDBC & JMS. This training course can be delivered for WebLogic, WebSphere, JBoss, GlassFish or any other JEE container.

Tarifs

- Tarification: \$3,750/person
- Rabais de 10% lorsque vous inscrivez 3 personnes.

Plan de cours

OVERVIEW OF JEE

Java Platforms

Characteristics of Enterprise Computing

JEE Technologies

Multi-Tier Architectures

Advantages of Multi-Tier Architectures

Container-Based Approach

JEE Application Models

JEE Deployments

JAVA NAMING AND DIRECTORY INTERFACE

What is JNDI?

Benefits of JNDI

Naming and Directory Services

Using JNDI

Context Operations

JNDI Utility Class

JNDI Example

Running the JNDI Example

Naming Exceptions

ENTERPRISE JAVABEANS

Enterprise Java Beans Component Model

Parties Involved in EJB Deployment

EJB Server and EJB Container

Types of Enterprise Beans

EJB Wrapper Interfaces

Deployment Descriptors

Context Environment Objects

Summary of EJB Environment

The Remote and Home Interface

The Enterprise Bean Class

The Client Code

Deploying the EJB in WebLogic

Ant Build Files for the Hello World Bean

The ejb-jar.xml File

The weblogic-ejb-jar.xml File

Creating and Running the Application

SESSION BEANS

Session Bean Lifetime, Interface, and Lifecycles

Stateless Session Bean Example (TaxBean)

Accessing Environment Entries

Deployment Settings for the TaxBean

Pool Settings for Stateless Session Beans

Deploying and Running the Tax Application

Stateful Session Bean Example (CartBean)

Exceptions Thrown by the CartBean

Cache Settings for Stateful Session Beans

Deploying and Running the Cart Application

USING JDBC DATA SOURCES

Connection Pools

JDBC Data Sources

Data Source Example

Configuring JDBC Data Sources

Running the Data Source Example

BMP ENTITY BEANS

Entity Beans, Entity Bean Interface, and Lifecycle

Bean-Managed Persistence Example

Deploying Entity Beans

Deployment Settings for Customer Bean

Pool and Cache Settings for Entity Beans

Running the Customer Application

CMP ENTITY BEANS

Container-Managed Persistence

Primary Key Class

Container-Managed Persistence Example

Mapping Container-Managed Fields

Deployment Settings for Product Bean

Settings for Custom Finders

EJB Query Language

Running the Product Application

Mapping to Multiple Database Tables

SESSION FACADE PATTERN

JEE Design Patterns

Session Facade Pattern

Transactions

Container-Managed Transactions

Transaction Attributes

System vs. Application Exceptions

Rolling Back a Container-Managed Transaction

Example ItemOrderer Bean

Deployment Settings for ItemOrderer Bean

Creating an Enterprise Application

CONTAINER-MANAGED RELATIONSHIPS

Local Interfaces

- Container-Managed Relationships
- Container-Managed Relationship (CMR) Example
- CMR Example : Local Interfaces
- CMR Example : Local Home Interfaces
- CMR Example : Entity Bean Classes
- CMR Example : Session Bean
- CMR Example : Deployment Descriptors
- Running the CMR Example

EJB SECURITY-----

- J2EE Security
- Adding Users in the Administration Console
- Specifying Security for EJBs
- Mapping Roles to Users

JAVA MESSAGE SERVICE-----

- Messaging Applications
- JMS and the J2EE Platform
- Basic JMS Concepts
- The JMS Programming Model
- Point-to-Point Examples : Sender and Receiver
- Configuring JMS for WebLogic
- Publish/Subscribe Examples : Publisher and Subscriber
- Reliable Message Delivery

MESSAGE-DRIVEN BEANS-----

- Message-Driven Beans
- Message-Driven Bean Example
- Deploying Message-Driven Beans
- Running the Example
- Message-Driven Bean Lifecycle
- Transactions
- Message Acknowledgement

EJB TIMER SERVICE-----

- Timer Service API
- Creating Timers
- Canceling and Saving Timers
- Getting Timer Information
- Transactions and Timers