SETC Training Corporate Logo

Java Training: JEE Programming for JBoss Professionals (JJBoss, 4 jours)

Description

The course JEE Programming for JBoss Professionals (Java Training) focuses on Enterprise Java development using JBoss AS. The student is plugged right away into the architecture of Enterprise Java in conjunction with the JBoss Application Server. From this point forward, JEE modules, including JDBC Data source, Servlet, JSP, PageFlow and NetUI, EBJ and JTA are covered and reinforced via hands-on exercises. The course wraps up with an overview of SOA.

Tarifs

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

Plan de cours

The JBoss Application Server

- Java Platforms JEE Technologies
- Multi-Tier Architectures
- JEE Application Models
- JEE Technology: Servlets and Page Flows
- JEE Technology: Portals
- JEE Technology: Enterprise Java Beans
- JEE Technology: SOA and Web Services
- JEE Technology: JMS and Message Driven Beans
- JEE Technology: Integration and Business Processes
- Putting it all Together: A Complete JEE Application

The JBoss Development Environment

- What is JBoss?
- Configuring JBoss for Enterprise Development
- Starting and Stopping JBoss
- Creating a JBoss Application: Code and Artefacts
- Exploring the JBoss Directory Structure
- Exploring the JBoss Configuration Files
- Debugging JBoss Applications
- Exploring JBoss Deployment

Configruing Datasources

- The Need for Data Sources
- Data Sources and JDBC Drivers
- Preparing the Database Server
- Creating the Data Source
- About Multi Data Sources
- Tuning the Data Source
- JDBC Data Sources and JNDI
- Creating a Data Source Client

Servlets

- The Need for Sevlets
- Web Applications, Web Services and Servlets
- Configuring Servlets

Running Servlets in JBoss
Setting Initialization Parameters
Dynamic Reloading of Servlets
Servlet Initialization Parameters
Servlets and Threads
Creating Servlet Filters
JSP Pages
JSP Architecture Servlets
JSP Syntax Overview
Configuring JavaServer Pages
JSP Directives and Actions
JavaServer Pages and JavaBeans
State Management: Cookies, Sessions and Application
Session Management
Page Flows
The Need for MVC
The Action, Form Bean and the Controller
Understanding the Controller
Creating Simple Actions
Form Bean Validation and Validation Error Forward
Using Catch Forwards
Creating Complex Actions
Using Message Bundles
Tag Libraries
What is a Tag Library?
Creating Custom Tag Libraries
Working with the Standard NETUI Tags
Working with the NETUI-DATA Tags
Working with the NETUI-Template Tags
Creating JDBC Controls
Calling JDBC Controls
Creating a Complete Workflow
Enterprise Java Beans
EJB Oerview: Working with JBoss
Types of Enterprise Beans
EJB Wrapper Interfaces and Annotations
Context and Environment Objects
About Home and Remote Interfaces
The Enterprise Bean Class
Deploying the EJB in WebLogic
The Client Code
Session Beans
What is a Session Bean?
Session Bean Lifetime
Session Bean Interface
Session Bean Lifecycles
Pool Settings for Stateless Session Beans
Deploying and Running Session Beans
Entity Beans
The Persistence Model

- The Classes and the Interfaces
- Container-Managed Fields
- Deployment Settings
- EB Query Language
- Running the Product Application

Transactions

- Container-Managed Transactions
- Transaction Attributes
- System vs. Application Exceptions
- Rolling Back a Container-Managed Transaction
- Summary of Transaction Options
- Creating an Enterprise Application

EJB Controls

- What is an EJB Control?
- Creating EJB Controls
- Calling EJB Controls
- Integrating EJB Controls in Page Flows
- Revisiting the Complete Wokflow

Implementing Webservices

- The Need for SOA
- Web Service Technology Overview: WSDL, SOAP, UDDI, etc..
- Implementing a Web Service using JBoss
- Implementing a Web Service Client using JBoss
- Creating and Using Service Controls
- Exposing Session Beans using Web Services
- Securing Web Services
- Web Services and SOAP Attachments
- Revisiting the Complete Workflow