Java Training: Enterprise Java Development Complete (JARCH, 4 jours)

Description

The course Enterprise Java Development Complete (Java Training) discusses enterprise application development with Java enterprise technologies. Starting with analysis and design of a JEE application, the content moves to JEE and its modules, including security and deployment. The training includes session beans, stateful & stateless session beans, JMS messaging beans & web service development. Best practices and enterprise design patterns are continuously reinforced through the course.

Tarifs

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

Plan de cours

Introduction
Business Analysis
Analysis Perspectives
Functional and Non-Functional Requirements
The Service Tiers: Presentation, Business and Data
JEE Overview
JEE Architecture
An Overview of JEE Servers: WebLogic, WebSphere, JBoss and Glassfish
JSP and Struts Overview
Enterprise Java Beans Overview
JMS Overview
SOA and Web Services
JEE Security
Best Practices of Software Engineering
Characteristics of a good software solution
How good software is built
Iterative development
Requirements management
Use of component-based architectures
Ongoing verification of software quality
Control of software changes
JEE Considerations
The Software Engineering Process
The Rational Unified Process
The Inception Phase
The Elaboration Phase
The Construction Phase
The Transition Phase
The RUP: Dynamic Structure
About Agile Development
Symptoms and Root Causes of Software Development Problems
RUP and JEE

Use Cases in the Overall Process
Business Process Modeling
Use Cases in the Software Development Process
Use Cases and Requirements
Management of Requirements and Use Cases
Writing Use Cases
Graphical Notation
Use Case Formats
Use Case Sections
The Supplementary Specification
Use Case Points: Estimting Effort
When to Use JEE Solutions
The Decision to use JEE: Distributed versus Local Architecture
When to use Specific Web Technologies: JSP, Struts, JSF, etc
When to use Session Beans: Design and State Considerations
When to use Entity Beans: CMP, BMP and maybe ORM
The Message Driven Bean and JMS Decision
When to use Web Services
When to use a Queuing Product
Clustering and QoS Considerations
Architecting a JEE Solution
Desiging the Layers: Presentation, Business and Data
Building the Interface: JSP, Struts and other web technologies
Building Business Services: Stateful versus Stateless Session Beans
Building the Data Layer: Introducing BMP and CMP Entity Beans
Building the Data Layer: Introducing ORM Technology
Building Communications: Message Driven Beans and JMS
Building Reliable Communications: Using a Queueing Product
Security Architecture
Security Essentials
JEE Security
Planning Security
Implementing J2EE Security
Security in a Clustered, Multi-Server Environment
Distributed Architecture
XML Essentials: Schemas, XSL and other Essential Topics
Web Service Technology: SOAP, WSDL, UDDI, etc
Web Service Communications: From Client to Server
Business Use Cases and the need for Web Services
Introducing Web Services
Publishing the Web Service
Securing the Web Service
JEE Patterns
Overview of JEE Patterns
Presentation Tier Patterns
Business Tier Patterns
Integration Tier Patterns
Connection to Tiers using Patterns
Distribution
Documentation Considerations

Planning the Deployment: UML Deployment Diagrams A Note on JAR, WAR and EAR Files Planning the Deployment from A to Z Deploying to a Production Environment Review and Case Study