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Java Enterprise Edition 6

Course Summary

Description

Students will get hands-on instruction and practice designing, developing, and testing JEE 6 applications. Students will learn best practices and techniques required to create a complex Enterprise application featuring JSF pages, JPA persistence, and EJB entities, with extensive testing and documentation. Students will learn to integrate related JEE technologies including JMS, Web Services and JBoss EAP 6.1.x.

Objectives

At the end of this course, students will be able to:

- Understand the components of a JEE 6 application
- Design the components of a complex integrated JEE 6 application
- Design, develop and test the persistence components using Hibernate with JPA
- Design, develop and test business entity components using EJBs
- Design, develop and test presentation components using JSF pages with Primefaces
- Create custom JSF converters and validators
- Unit test components using JUnit test scripts
- Create integration tests for the end-to-end application flow
- Integrate the application with eternal components using Web Services and JMS messaging
- Create JavaDocs to document the application
- Configure JBoss EAP 6.1 to support this applications deployment
- Create custom queries using JPQL
- Connect components using CDI

Topics

- Overview of JEE 6 applications
- Configuring JBoss EAP 6.1
- Servlets, Filters and Listeners
- JSF 2.x
- JSF Converters and Validators
- Ajax with JSF Components
- Primefaces
- JSF Facelets
- REST Web Services
- Unit Testing
- Integration Testing
- Documentation with JavaDocs
- EJB Components
- JPA
- JPQL
- JPA Relationships
- CDI
- JBoss Security
- JMS

Audience

This course is designed for Java developers interested in designing, developing, and testing JEE 6 enterprise applications.

Prerequisites

Students should have:

- Basic Java development experience
- Basic Web development experience
- Basic database experience including basic SQL knowledge

Duration

Fifteen days

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