



DESCRIPTOR SYSTEMS

"We Bring You Up To Speed"

Mastering JEE with JSF2, EJB3, JPA, and Web Services

Description: This class combines lectures with hands-on experience that will help students to understand JSF 2, EJB 3 and RESTful Web Services.

Prerequisites: Basic Java programming experience is required.

Audience: This course is designed for Intermediate Java Developers who are familiar with Java and HTML who want to understand JSF 2, EJB 3 and REST Web Services.

Length: Five days.

Objectives:

After taking this course, you will be able to:

1. Program Web applications that use JavaServer Faces (JSF) including data tables and Ajax.
2. Program Enterprise JavaBeans (EJB3) to form the transactional business-logic layer of an enterprise application.
3. Use the Java Persistence API (JPA2) to access relational data as objects.
4. Create reliable programs that execute units of work using EJB3 transaction support.
5. Create RESTful APIs using JAX-RS, including the Create, Retrieve, Update and Delete (CRUD) verbs.

Topic List

1. Introduction to the Course
2. Introduction to JSF
3. Writing JavaBeans

4. JEE Review
5. JSF Architecture
6. Request Processing and Navigation
7. Managed Beans and the JSF EL
8. JSF Components
9. Conversion and Validation
10. Event Handling
11. Panels and Data Tables
12. JSF and Internationalization
13. Introduction to EJB
14. EJB Fundamentals
15. Stateless Session Beans
16. Stateful Session Beans
17. Introduction to JMS
18. Message Driven EJBs
19. Introduction to Java Persistence
20. Developing with Java Persistence
21. JPA Entity Relationships
22. JPA Queries
23. Transactions and Security
24. Introduction to SOAP Web Services
25. Introduction to REST
26. Introduction to JAX-RS
27. JAX-RS and CRUD