

EJB
Duration 4 Days

- **Introduction to J2EE**
 - Java and its role in J2SE and J2ME platform
 - J2EE (Java 2 Enterprise Edition) architecture
 - J2EE application servers
 - Services
- **Introduction to EJB**
 - What are EJBs?
 - Session beans
 - Entity beans
 - Message beans
 - EJB architecture
 - Naming
 - Containers and servers
- **EJB Deployment**
 - Deployment descriptors
 - Why deploy?
 - EJB JAR files
 - J2EE Deployment Tool
 - Configuring an EJB
 - Verification and deployment
- **Session beans**
 - What is a session bean?
 - Stateful vs stateless session beans
 - Implementing a session bean
- **Standard EJB Methods**
 - Standard methods in EJBs
 - Creation and removal
 - Instance pooling
 - Passivation and activation
- **Handles**
- **Bean-Bean communication**
 - Importance of ejb-ref elements
 - Local Interfaces vs. Remote Interfaces
- **Bean-Resource communication**
 - Importance of resource-ref elements
- **Entity Beans**
 - Principles of CMP
 - EJBs with Container-Managed Persistence(CMP)
 - Creating a CMP bean
 - Mapping fields
 - Simple mappings
 - Type mapping
 - Complex mappings
 - Finder methods and EJB-QL
 - EJBs with Bean Managed Persistence (BMP)
 - Principles of BMP
 - Building a BMP bean
 - Using databases within BMP beans
 - Configuring BMP beans
 - Using naming

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- **Container Managed Relationship (CMR)**
 - Uni-directional vs. Bi-directional relationships
 - 1-1, 1-many as well as many-many relationships
- **Managing Relationships manually**
 - Design strategies

- **Transactions Overview (including JTA & JTS)**
 - What are transactions?
 - Transaction properties
 - One-phase and two-phase commit
 - EJB Transactions
- **Transaction management**
 - Different models for transaction management
 - Transaction attributes
 - Transaction isolation
 - User transactions
 - Sessions and transactions
 - Clients and transactions
 - Mixing transactions

- **Security in J2EE applications**
 - Authentication and Authorization
 - Realms
 - Users, groups and roles
- **Java Messaging Service (JMS)**
 - Messaging architecture
 - Publish/Subscribe and Point to Point (P2P)
 - Queues and Topics in JMS
 - Message types
 - Message Driven Bean (MDB)
- **Introduction to**
 - Java Connector Architecture (JCA)
 - Java Authentication and Authorization Service (JAAS)
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