



EJB3

Abstract

EJB (Enterprise Java Beans) is the one of the key standards of JavaEE. EJBs allow the developer to concentrate on the business logic whilst all the peripheral services are taken care of by the application server (clustering, persistence, locking, messaging, pooling, etc...).

EJB is one of the main reasons for the great success of JavaEE.

Version 3 of EJB has greatly eased the development of EJBs. It is now considered to be an excellent framework for building enterprise applications.

Target Audience

Java developers, team leaders and project managers.

Prerequisites

Familiarity with the Java language.

Content:

Introduction to JavaEE (1 hour):

- The Need for JavaEE.
- Overview on the JavaEE Architecture.
- JavaEE Key Standards.

Introduction to EJB3 (2 hours):

- The EJB Model.
- Key Services of the Application Server.

Developing Session Beans (3 hours):

- Stateless Session Beans.
- Stateful Session Beans.
- Packaging.
- Writing Clients.

Using Dependency Injection (2 hours):

- No More JNDI.
- Injection of EJBContext.

Messaging & Message Driven Beans (2 hours)



JMS Overview.
JMS Message Driven Beans.
Custom Messaging Types.

Creating Interceptors (2 hours)

AOP Overview.
Interceptor Classes.
Lifecycle Interceptors.

Using Transactions (2 hours):

Distributed Transactions.
Bean Managed Transactions.
Container Managed Transactions.

EJB3 Security (2 hours):

Role Based Security.
EJB3 Authorization.

Persistence – JPA (8 hours):

Object Relational Mapping.
Mapping configurations.
Embedded Objects.
Composite Keys.
Inheritance.
Relationships.
Working with the persistence manager.
Working with Query objects.
Caching and optimizations.

Duration: 3 days.