

# EJB Programming with RAD7

WT1557

Students develop session beans with RAD, including accessing a database from session bean and EJB Java Client. They develop CMP Entity Beans, including EJB/RDB mapping and finder methods. Next, they develop a message-driven bean and integrate Java Message Service (JMS), IBM MQSeries, with RAD. Students also develop access beans. The purpose is to exhibit the use of development, testing, and deployment tools to improve EJB development productivity. The student will deploy a J2EE application to WebSphere Application Server v6.

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## Audience

- This course is intended for intermediate to advanced Java programmers. System architects will find the advanced concepts especially beneficial in designing a framework

## Prerequisites

- The student is expected to understand the core Java libraries; be familiar with web application programming, including servlets and JSPs; have some experience or understanding of using IBM Rational Application Developer. This course includes a review of RAD Basics, but assumes some knowledge of RAD.

## Learning Objectives

- Understand the need for EJB
- Understand the EJB 2.1 specification at an expert level
- Understand how to develop, test, and deploy EJBs with RAD
- Gain knowledge of J2EE Design Patterns and Best Practices
- Learn the industry secrets in EJB scalability

## Teaching Methods

- Lectures
- Hands-on workshops

## Course Length

- Five Days

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## Course Outline

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- Review of RAD v7.0 Basics
- Introduction to Web Applications and J2EE
- Overview of Enterprise Java Beans
- Session EJBs
- Entity EJBs
- EJB and Exceptions
- EJB and Transactions
- EJB Security
- Message-Driven EJBs
- J2EE Best Patterns with Focus on EJB
- WebSphere v6 administration for programmers
- J2EE Design Patterns with Focus on EJB
- EJB Inheritance