

Course 346 – Enterprise Java with Spring

Duration: 3 days

You Will Learn How To

- Develop scalable enterprise Java applications using Spring
- Build application infrastructure using Inversion of Control (IoC) and Dependency Injection (DI)
- Perform unit testing using stubs and Spring's test support classes
- Modularize functionality using Aspect-Oriented Programming (AOP)
- Add a flexible application user interface with Spring Model View Controller (MVC)
- Use Spring to simplify Hibernate development
- Be more productive in Spring development using Spring Source Tool Suite Eclipse IDE

Course Benefits

Developing robust Java enterprise applications is a complex process often requiring extensive infrastructure code. In this course, Java developers learn how to quickly build enterprise Java applications using the industry-standard Spring framework. Through intensive hands-on exercises, you learn how to implement high-performance applications while reducing development time.

Who Should Attend

Architects, programmers, engineers, managers and those involved in the development of complex enterprise-level Java applications. Knowledge of Java at the

level of Course 321 - Java Programming, plus real-world Java programming experience, is assumed.

Course Content

Introduction to Spring

- The Spring Framework
- How the Spring Container Works
- Spring Modules
- Setting Up a Spring Development Environment

Bean Configuration

- Creating the Bean Configuration File
- Declaring a Bean
- Injecting Dependencies
- Creating the ApplicationContext
- Autowiring Beans
- Detecting Beans Automatically
- Inheriting Bean Definitions

Spring Testing Support

- Unit Testing
- JUnit 4 Annotations
- Assertions
- Spring Testing Support

Aspect-Oriented Programming

- Crosscutting Concerns
- AOP Concepts
- Declaring Advices
- Writing Pointcut Expressions
- XML-Based AOP

Spring JDBC

- Problems with JDBC
- Using SimpleJdbcTemplate



- JdbcTemplate
- Spring's Data Access Object Support
- Exception Handling

Transaction Management

- Transactions
- Transaction Management with JDBC
- Spring Annotation-based Transaction Management
- Specifying Propagation Behavior
- Specifying Rollback Behavior
- Spring XML-Based Transaction Management

Spring MVC

- Using Spring in Ordinary Web Applications
- The MVC Design Pattern
- DispatcherServlet
- Controllers
- View Resolvers
- Quickstart to Spring MVC

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ActiveLearning is the Philippines' leading provider of Information Technology and Project Management education, where thousands of students take courses from Application Development to Project Management to Network Security, and much more. Our courses are taught by expert instructors, and learning is enhanced through a blend of in-depth lectures, workshops, and hands-on exercises.