

Developing J2EE Applications using Spring Framework WT1552

This course provides students with the knowledge needed to use the Spring Framework to develop flexible, testable and maintainable J2EE enterprise applications.

Audience

- Software designers, developers and programmers

Prerequisites

- Understand Servlets and JSPs topics.

Course Length

- Three Days

Teaching Methods

- Lectures
- Hands-on workshops

Learning Objectives

- Understand the need for the Spring framework
- Use inversion of control to increase flexibility and testability of applications
- Understand and use aspect-oriented programming to better handle cross-cutting concerns
- Integrate Spring with the Hibernate ORM framework
- Declaratively and programmatically manage transactions in Spring
- Use the Spring MVC web framework to develop flexible web applications
- Integrate Spring with the Struts web application framework
- Access enterprise services including JMS, email, job schedulers and JNDI

Course Outline

WTJ9

- **The Need for Spring**
- **Inversion of Control**
- **Wiring Beans**
- **Aspect-Oriented Programming in Spring**
- **Database Integration and Transaction Management**
- **Spring MVC**
- **Web Application Alternatives**
- **Accessing Enterprise Services**