



Spring Framework Course Syllabus

Course Description:

This course not only focuses on explaining Spring features and how to use them, but also on fundamental architectural issues.

Prerequisite Course(s):

- Java Programming
- Advanced Java Programming
- XML & Java API for XML Processing

Learning Objectives:

- To learn how to use the Spring Framework to create well-designed business applications in an agile manner.
- To understand the scope, purpose, and architecture of Spring framework.
- To use Spring's Inversion of Control to declare application components, rather than hard coding their states and lifecycles.
- To use Dependency Injection to further control object relationships from outside the Java code base.
- To connect business objects to persistent stores using Spring's DAO and ORM modules.
- To understand AOP Concept.

Course Outline:

- Introduction to Spring framework.
- Spring vs EJB.
- Inversion of Control (Ioc) Container.
- AOP Concept.
- Spring JDBC.
- Transaction Management.
- Object relation mapping concept (ORM).
- Integration with Hibernate.