

Spring Online Training Course Content

Faculty: Real time and certified

(Includes theoretical as well as practical sessions)

1. Introduction
 - a. Why Spring?
 - b. Architecture of Spring
 - c. Core Modules of Spring
2. Introduction to spring
 - a. Instantiating Spring IoC Container
 - b. Configuring beans in Spring IoC Container
 - c. Setter Method Injection
 - d. Constructor Injection
 - i. Creating beans by invoking constructor
 - ii. Resolving Constructor ambiguity
 - e. Defining Collections for beans
 - i. List
 - ii. Arrays
 - iii. Set
 - iv. Map
 - f. Creating beans by invoking factory method
 - g. Setting Bean scopes
 - i. Singleton
 - ii. Prototype
 - iii. Request
 - iv. Session
 - v. Global session
3. Spring Web Module
 - a. Integrating Spring with:
 - i. Servlets
 - ii. JSP's
4. Spring MVC
 - a. MVC Flow
 - b. Controllers
 - c. Handler mappers
 - d. View resolvers
5. Data Access

- a. Problems with Direct JDBC
 - b. Using a JDBC Template to update the Database
 - i. Updating a Database with Statement Creator
 - ii. Updating a Database with Statement Setter
 - iii. Updating a Database with a SQL statement and Parameter values
 - iv. Batch Updating a Database
 - c. Using a JDBC Template to query a Database
 - i. Extracting Data with Row Callback Handler
 - ii. Extracting Data with a Row Mapper
 - iii. Querying for Multiple rows
 - iv. Querying for Single Value
 - d. Simplifying JDBC Template creation
 - i. Injecting a JDBC Template
 - ii. Extending the JDBC DAO Support
 - e. Using Named Parameters in a JDBC Template
 - f. Handling Exceptions in the JDBC Framework
 - g. Problems with Using ORM Frameworks directly
 - h. Configuring ORM Resource Factories in Spring
 - i. Persisting objects with Spring's ORM templates
 - j. Persisting objects with Hibernate's Contextual Sessions
6. Using Spring's ActionSupport
- a. Integrating Spring with Struts 2.x
7. Transaction Management in Spring
8. Object Relational Mapping Integration
- a. Spring - Hibernate Integration
9. Spring Security
10. Aspect Oriented Programming
- a. Aspect
 - b. Advice
 - i. Before
 - ii. After
 - iii. Around
 - iv. Throws
 - c. Join Point
 - d. Pointcut
 - i. Static point cut
 - ii. Dynamic point cut
11. Event Listeners in Spring
12. Spring Autowiring
- a. byname
 - b. byType

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- c. constructor
- d. autodetect

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