

SPRING

Spring Core

- Spring XML Configuration
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- Spring Annotation and Java Configuration
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- Properties file
- Life Cycle Methods
- Bean Scope and LookUp Method
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- Factory Pattern with inputs
- BeanPostProcessor, p and c namespaces
- Autowiring using XML and Annotation
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- JSR-250 @PostConstruct and @PreDestroy and @Resource SpEL : Spring Expressions Language

Spring JDBC

- JDBC Overview and Basic Example
- Template Design pattern for Boilerplate code, JdbcTemplate configuration using XML and Java Configuration
- NON-SELECT Operations using update()
- SELECT operations using RowMapper
- Using DataSources

Spring ORM

- JPA and Hibernate Overview and example
- Template Design pattern for Boilerplate code, Writing Entity Classes
- HibernateTemplate Configuration using XML configuration
- HibernateTemplate Configuration using Java configuration
- CRUD Operations using HibernateTemplate
- Dao Configuration, Connection Pooling Concepts
- Transaction Management Overview
- Working with Element Collections
- Association Mappings
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- Executing Joins Custom Queries
- Composite PK, Large Objects, Validation API

Spring WEB MVC

- Introduction
- MVC Design pattern (Spring MVC)
- First Application using XML Configuration
- Rules to write Controllers
- Working with Data Models
- ViewResolver and Configuration, using JSP, Thymeleaf View Technologies
- Parameters passing
- FORMs using Spring Tag Library
- Crud Operations using ORM
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- Multi-language Implementation using i18n

Spring Security

- Authentication and Authorization
- Authentication Manager and authentication info provider
- Need of Spring Security
- DelegatingFilterProxy
- Form Login and Session Management
- Working with Different Authentication Providers
- Working with Different Authentication Providers
- Security Examples
- Using Annotation Configurations