



Spring Framework(5.x)

Spring Introduction

- Introduction to Spring Framework
- Introduction to Modules of Spring
- MVC Architecture
- Dependency Injection
- POJI(Interface)

Spring Core Module

- Introduction to IOC
- Introduction to Spring Container
- Types of Dependency Injections
- Strategy Design pattern
- Resolving/identifying params in constructor injection
- Bean Inheritance
- Collection Merging
- Performing dependency lookup by using IOC container
- Factory Method
- Singleton java class, Bean Scopes
- Bean Wiring
- *Working with multiple Name spaces*
- Working with properties file
- I18n (Internationalization)
- Event Handling
- Bean Life Cycle
- Aware Injection
- FactoryBean
- ServiceLocator
- Method Replacement/Method Injection
- Lookup method injection
- Working with different kinds of PostProcessors
- PropertyEditors
- Spring Expression Language(SpEL)

Spring Core Module with Annotations

- *Working with Java config annotations*
- Working with properties file in annotations environment

Spring Core Module with 100% Code/Java Config Approach, Spring Boot Core

- Introducing to Spring Boot
- Spring Boot primary goals
- Applications

Spring JDBC/DAO

- Introduction
- Spring JDBC/DAO Advantages
- JdbcTemplate
- JNDI Registry and ServerManaged Jdbc connection pool
- *Callback Interfaces*
- Batch processing/Updating
- NamedParameterJdbcTemplate
- Working with SimpleJdbcInsert, SimpleJdbcCall
- SimpleJdbcCall
- Mapping SQL operations as Sub Classes

Spring JDBC/DAO with Annotations

Spring JDBC/DAO with 100% Code Approach

Spring Boot JDBC/DAO

- Spring Boot DAO-JdbcTemplate
- Spring Boot DAO-Simple Jdbc Insert

Spring AOP Module

- Introduction
- Need of AOP
- AOP Terminologies
- Types of Advices
- Types of Pointcuts
- Programmatic based AOP
- Declarative Based AOP
- @AspectJ Style AOP support

Spring AOP with Annotations

Spring AOP with 100% Code Approach

Spring Boot AOP

Spring Transaction Management

- Introduction to Transaction Management
- Declaring a Spring Transaction Manager
- Configuring isolation levels
- Configuring transaction propagation
- Transactions and integration testing
- Aop 2.0 Configuration driven Transaction Management

AspectJ annotation based Transaction Management

Spring Transaction Management with Annotations

Spring Transaction Management with 100% Code Approach

Spring Boot Transaction Management

Spring MVC

- Introduction To MVC
- Spring MVC Resources
- Spring MVC flow
- DispatcherServlet
- Controller Classes

- HandlerMappings
- Validations
- ViewResolvers
- tiles in Spring MVC
- Message source
- MVC namespace
- Spring Handler interceptors
- i18N
- PDF Views and Excel Views

Spring MVC with Annotations

Spring MVC with 100% Code Approach

Spring Boot MVC

Spring Security

- Introduction
- Security Examples on Xml Approach
- 100% Code Based Spring Security
- LDAP Configuration
- Spring Security Boot

Spring Social

- Introduction
- Accessing face book data
- Accessing twitter data
- Spring social Example

Spring ORM

- Introduction to ORM
- Integrating with Hibernate
- Spring with hibernate without HibernateTemplate
- Spring with hibernate with HibernateTemplate
- HiberanteTemplate
- HibernateDAOSupport
- Callback interfaces
- Sping with JPA and other ORM integrations

Spring Batch

Spring OAuth

Spring Data JPA