

Spring Framework

Introduction to Spring

- What is Spring?

Spring Core Concepts

- Spring IOC (Inversion of Control)
 - Dependency Injection
 - Setter Based
 - Constructor Based
 - Spring IOC Container
 - Core Container
 - Advanced / J2EE Container
 - Autowiring
 - Spring Bean Life Cycle
 - Bean Scope
 - Scope Combination

Spring Modules

- Spring Modules
 - Setter Based (XML & Java Based)
 - Primitive, Secondary, Array, Collection Injection
 - Constructor Based (XML & Java Based)
 - Primitive, Secondary, Array, Collection Injection

Spring Web MVC

- Features of Web MVC
- Life Cycle of Web MVC
- DispatcherServlet
- Stereotype Annotation in MVC
- Spring Form Validation
- Spring Hibernate Integration (XML and Java Based)
- Mini Project

Spring Boot

Introduction to Spring Boot

- What is Spring Boot?
- Advantages Over Spring Web MVC

- Removal of XML Files
- Simple Application Using Spring Boot
- Spring Boot Actuator
- Spring Boot Profiles (DEV, PROD, UAT)
- Spring Boot with Data JPA (CRUD Repository)
- Mini Project Using Spring Boot

Spring Boot JPA

Introduction to Spring Boot JPA

- What is Spring Boot JPA?
- JPA Annotations
- CRUD Repository
- JPA Repository
- Custom Queries
 - JPA Named Queries
 - @Query Annotation