

INFOSOFT IT SOLUTIONS

Training | Projects | Placements

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JAVA SPRING

Introduction to Java Spring Framework

Introduction

- Overview of Java Spring framework
- History and evolution
- Advantages and key features

Spring Core

- IoC (Inversion of Control) and Dependency Injection (DI)
- Beans and Bean Scopes
- Configuration (XML and Annotation-based)

Spring AOP (Aspect-Oriented Programming)

- Understanding AOP concepts
- Aspect, Advice, Pointcut, and Join point
- AOP with Spring

Spring MVC (Model-View-Controller)

Introduction to Spring MVC

- Architecture and components
- Request flow

Controllers

- Creating controllers
- Handling requests and responses
- Request mapping

Views and ViewResolver

- Thymeleaf, JSP, or other templating engines
- Configuring view resolvers

Forms and Data Binding

- Form handling
- Command objects
- Data binding and validation

Handling Forms

- Form submission and processing
- Validation with Spring
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Interceptors and Handler Mapping

- Interceptor concepts
- Handler mappings

Data Access with Spring

Spring JDBC

- Introduction to JDBC
- Spring JDBC template

Spring ORM with Hibernate

- Integration with Hibernate
- Configuration and session management
- CRUD operations

Spring Data

- Introduction to Spring Data
- Repositories and Query methods
- Integration with JPA (Java Persistence API)

Spring Security

Introduction to Spring Security

- Authentication and authorization
- Basic concepts

Securing Web Applications

- Configuring security for web applications
- User authentication
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Authorization and Access Control

- Role-based access control
- Method-level security

RESTful Web Services with Spring

Introduction to REST

- Principles of REST architecture
- RESTful web services
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Building RESTful APIs with Spring

- Spring MVC for REST
- Mapping requests to REST controllers

RESTful Client with Rest Template

- Consuming RESTful services
- Rest Template usage

Testing Spring Applications

Unit Testing with Spring

- Testing components with JUnit
- Mocking dependencies

Integration Testing

- Testing Spring applications in context
- Using Spring Test Context Framework

Spring Boot

- Introduction to Spring Boot
- Auto-configuration and starters

Spring Cloud

- Microservices architecture with Spring Cloud
- Service discovery, configuration management

Spring Integration

- Introduction to Spring Integration
- Messaging and integration patterns