Spring Framework Training

Duration: **4 Day**

BILGINC IT Academy
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Overview

This {*training} is designed for software developers building enterprise-level Java applications. The course covers everything from core Spring concepts to advanced topics such as Spring Boot, Spring MVC, REST APIs, and data persistence with JPA and Hibernate.

Participants will learn how to build scalable, maintainable, and high-performance applications using the Spring ecosystem.

Prerequisites

No prerequisites are required
(Basic Java knowledge is recommended)

Who Should Attend

- Java developers
- Backend engineers
- Software developers using Spring
- Enterprise development teams

What You Will Learn

By the end of this {*training}, you will have gained knowledge and skills in the following areas:

- Apply Dependency Injection and IoC
- Build applications using Spring Boot
- Develop web apps with Spring MVC
- Create RESTful APIs
- Work with JPA, Hibernate, and MongoDB
- Manage transactions and use AOP
- Use Spring Data repositories
- Write advanced queries with QueryDSL

Outline

Spring Core & IoC

- Dependency Injection
- IoC container
- Bean lifecycle

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AOP & Transactions

- Spring AOP
- AspectJ
- Transaction management

Spring Boot

- Rapid application development
- Auto-configuration
- Microservices

Spring MVC

- MVC architecture
- Front Controller pattern
- Request mapping
- Thymeleaf

REST APIs

- RESTful services
- API design

ORM & Data Layer

- Hibernate & EclipseLink
- Entities & relationships
- Entity lifecycle

Spring Data

- Repository interfaces
- CRUD operations
- Paging & sorting
- QueryDSL

NoSQL Integration

- MongoDB integration

Security & Testing (Extended)

- Spring Security
- Authentication & authorization
- Testing

Advanced Topics

- Spring Web Flow
- Web Services
- EJB & JMS

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