

Spring Framework



e-Learning Course

Zetlan Technologies

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COURSE MODULES

1

Spring Essentials Overview

- What is the Spring Framework?
- The Dependency Injection (DI) Container
- Spring Framework History
- Spring Overview

3

Component Scanning

- Annotation-based configuration
- Configuration Choices
- Adding Startup and Shutdown Behaviors
- Stereotype and Meta Annotations
- Annotations and component Scanning

5

Introducing Aspect Oriented Program

- What Problems Does AOP Solve?
- Core AOP Concepts
- Defining AOP Pointcut Expressions
- Advice Types
- Introducing Aspect Oriented Programming

2

Java Configuration

- Quick start with java Config
- The Application Context
- Handling Multiple Config
- Bean Scopes
- Java Configuration
- Use External Properties
- Spring Profiles
- Spring Expression Languages (SpEL)

4

Inside the Spring Container

- Initialization Phase
- Use and Destroy Phases
- Bean Creation Order & Injection Issues

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Testing Spring Applications

- JUnit 5
- Write Integration Tests using Spring
- Configure Test using Spring Profiles
- Working with Database
- Testing Spring Applications

7

JDBC Simplification with JDBC Template

- Problems with traditional JDBC and into JDBC Template
- JDBC Template Basic Usage
- Working with ResultSets Using Callbacks
- Exception Handling
- JDBC Simplification with JDBC Template

8

Transaction Management with Spring

- Why Transactions & how java supports them
- Spring Transaction management
- Configuration Transaction Propagation
- Setup Rollback Rules and Testing Support
- Transaction management with Spring