

Schedule

Java Spring Boot 2025

Curriculum - 2025 version

▸ 1. Java Concepts

- The four pillars of OOP in Java
- Collections
- Optional

▸ 2. Spring Boot Introduction

- Introduction to Spring Boot
- Creating a Spring Boot application
- Using Maven
- How a Spring Boot application works

▸ 3. Spring Boot Essentials

- Managing Beans and Dependency Injection
- Spring Boot Auto-Configuration
- Spring Cache

▸ 4. Creating Web Applications

- Spring MVC Essentials
- Defining controllers and view
- Managing forms
- Additional techniques

▸ 5. Spring Boot Testing

- Unit Testing
- Integration Testing

▸ 6. Spring Data

- Spring Data JDBC
- Spring Data JPA
- Dealing with NoSQL databases

▸ 7. Effective Spring Development

- Property files, logging, profiles
- Spring Boot Actuator

▸ 8. Creating REST Services

- Creating REST Services
- Spring Boot and Microservices

▸ 9. Consuming REST Services

- RestTemplate
- RestClient
- WebClient & Webflux

▸ 10. Spring Boot Security

- Spring Security

Curriculum - old version

▸ 1. Java Concepts

- Collections
- Inheritance
- Polymorphism
- Interfaces
- Optional

▸ 2. Introduction to Spring Boot

- Spring Boot vs. Spring Framework
- Features and benefits

▸ 3. Creating a Spring Boot Application

- Using Spring Initializr
- Using Maven
- Understanding how a Spring Boot application works

▸ 4. Managing Beans and Dependency Injection

- Spring Beans
- Configuration classes
- Value Injection
- Spring Expression Language

▸ 5. Spring Boot Auto-Configuration

- What is auto-configuration
- Understanding @Xxx annotations

▸ 6. Creating Web Applications

- Spring MVC Essentials
- Defining controllers and view
- Managing forms
- Additional techniques

▸ 7. Spring Boot Testing

- Unit Testing
- Integration Testing

▸ 8. Spring Data

- Using JDBC
- Using JPA
- Creating CRUD repositories
- Dealing with NoSQL databases

▸ 9. Effective Spring Development

- Property files
- Spring profiles
- Spring Boot Actuator

▸ 10. REST Services

- REST Essentials
- Creating REST Services
- Consuming REST Services
- Spring Boot and Microservices

▸ 11. Spring Boot Security

- Security Essentials
- Authentication and authorization