Spring Boot Fundamentals Training

Duration: **3 Day**

BILGINÇ IT Academy
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Spring Boot is the latest incarnation of the Spring Framework, which is a mature, enterprise-grade, and open source application development framework that provides a flexible and modern alternative to the official Java EE standard. It also provides inversion of control containers for the Java platform.

This is a 3-day course, which balances theory and hands-on applications that are focused on practical takeaways. The course will take you through the fundamentals of the Spring Framework. You will then gain an understanding of how to retrieve data using a relational database. Gradually, you will learn how to create browser-based applications. Lastly, you will grasp the concept of RESTful web-services, APIs, and learn how to implement Spring Security.

Prerequisites

You should have at least basic Java knowledge and know how to compile an application with a given POM file with Maven. You don’t need to be an HTML expert but should know how HTML basically works and how to keep a file XML/XHTML compliant.

Who Should Attend

This course is aimed at developers who are at the beginner or early-intermediate stage of their career and want to be able to easily create robust web applications or RESTful services using the Java platform.

You should take this course if you want to create modern web applications or RESTful services with Java. You will also learn a lot about the Spring framework itself, which will enable you to create complete applications on your own afterward.

If you are interested in gaining a good grasp of Spring Boot in a systematic and hands-on way by working through a real-world project, then this course is for you.

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What You Will Learn

This course complies with instructional design principles for all nine lessons. This will ensure that you repeat and reinforce the knowledge gained at every step. Each and every minute spent on this 3-day course will incrementally take you to the next level.

The course will provide you with knowledge of the following:

- Create a Spring Boot application from scratch
- Write comprehensive tests
- Store data in a relational DB
- Create a RESTful API
- Create a rich web interface
- Secure your application with Spring security

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Training Outline

1 - The Spring Project and Framework

- The Spring Project and Framework
- Bootstrapping
- The Application Context
- Additional Tools- Project Lombok

2 - Building a Spring Application

- Dependency Injection in Spring
- Configuration of Spring Boot Applications

3 - Testing Spring Applications

- Applying Unit Tests
- Integration Tests

4 - The MVC Pattern

- Introducing the MVC pattern
- Spring Web MVC Basics
- Spring Web MVC Controller

5 - Displaying Information Using Web Pages

- HTML Templating with Thymeleaf
- Displaying Data Using a Model and Data Binding

6 - Passing Data Between the View and the Controller

- Form Handling
- Form Input Types and Value Binding

7 - RESTful APIs

- What is a RESTful API?
- REST controllers in Spring
- Hypermedia with Spring Boot

8 - Web Application Security

- Securing your Web Application
- Spring Security

9 - Persisting Data Using a Database

- Relational Databases and SQL
- Access the Database from Java with JDBC and JdbcTemplate
- Schema Updates
- Outlook - Advanced Database Support