Getting Started with Spring Boot- Beginner's Guide

This course covers the fundamentals of Spring Boot and you will gain the necessary skills to develop various types of applications using the powerful features of the Spring Boot framework.

BEGINNER | 27 LESSONS | 3H 40MIN TOTAL

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WHAT YOU'LL LEARN

- Understand the fundamentals of the Spring Boot framework and its ecosystem
- Set up and structure a Spring Boot project from scratch
- Apply dependency injection and manage application configuration
- Add logging and monitor application health using Spring Boot Actuators
- Write unit and integration tests for REST APIs using Mockito and MockMvc

PREREQUISITES

- Basic understanding of Java programming (Java 17 or above)
- An IDE installed, such as IntelliJ IDEA, Eclipse, or VS Code
- Basic familiarity with build tools like Maven or Gradle
- Understanding of Object-Oriented Programming (OOP) concepts

OVERVIEW

Spring Boot is a popular, open-source, enterprise-level framework for creating standalone, production-grade applications that run on the Java Virtual Machine (JVM). It requires minimal or zero configuration and is easy to get started. It is a widely popular choice among Java developers for developing MicroServices and web applications.

It is built on top of the popular Spring Framework and inherits features like dependency injection (DI) and Inversion of Control (IoC) from Spring.

This course is ideal for: - Beginners who are new to Spring Boot and want to dive into the world of Java web development. - Whether you want to develop web applications, Microservices, or RESTful APIs, this course will equip you with the necessary skills to kickstart your Spring Boot journey.

By the end of this course, you will have a solid understanding of Spring Boot and be able to develop various types of applications using its powerful features.

COURSE CURRICULUM

01	Introduction to Spring Boot Framework	14 min	OPEN
02	Prerequisites for Spring Boot Development	11 min	OPEN
03	Setting Up Your First Spring Boot Project	8 min	OPEN

04	Understanding Spring Boot Project Structure	9 min	OPEN
05	Dependency Injection in Spring Boot	19 min	OPEN
06	Most Commonly Used Annotations in Spring Boot	7 min	OPEN
07	Configuration Management in Spring Boot	15 min	OPEN
08	Logging in Spring Boot	16 min	OPEN
09	Building Your First REST API with Spring Boot	30 min	OPEN
10	Handling Request Parameters, Path Variables, and Request Bodies		UPCOMING
11	How to Validate the @PathVariable in Spring Boot	8 min	OPEN
12	Validating Request Data with Bean Validation in Spring Boot		UPCOMING
13	Connecting Spring Boot to a Database with Spring Data JPA		UPCOMING
14	Using H2 In-Memory Database in Spring Boot	5 min	OPEN
15	Building CRUD REST APIs with Spring Data JPA		UPCOMING
16	Performing MongoDB CRUD Operation in Spring Boot	8 min	OPEN
17	Pagination and Sorting in Spring Boot REST APIs		UPCOMING
18	Handling File Upload and Download in Spring Boot		UPCOMING
19	Centralized Error Handling in Spring Boot with @ControllerAdvice		UPCOMING
20	How to Use Interceptor in Spring Boot Application	20 min	OPEN
21	Using Filters in Spring Boot		UPCOMING
22	How to Configure Swagger2 in Spring Boot Application	10 min	OPEN
23	Working with Spring Boot Actuators	13 min	OPEN
24	Testing Spring Boot REST API using Mockito and MockMvc	25 min	OPEN
25	Packaging and Running a Spring Boot Application		UPCOMING
26	Dockerizing a Spring Boot Application		UPCOMING
27	Deploying a Spring Boot Application to the Cloud		UPCOMING

INSTRUCTOR

Nilanchala Panigrahy

Software Architect based in London with 19+ years of experience designing and scaling mission-critical backend systems. Nilanchala has worked on large-scale enterprise platforms, led digital transformation initiatives, and guided teams through complex system design decisions where reliability, security, and maintainability actually matter. Beyond architecture, he's passionate about mentorship — helping developers bridge the gap between writing clean code and designing robust systems.

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