

Module: Spring Web programming

Are you struggling to understand Spring for the web? This training teaches you how to use Spring Framework, Spring MVC and Spring Boot to create web applications. You will be able to install and configure the Framework, understand control injection, manage forms and use the Form tag Library, integrate Spring Data and Spring Security to secure your application.

Prerequisites : HTML5 language, Java SE programming.



Ways to take this course: Online Instructor Led
Online self-paced
Video On Demand

Video conference tool: ZOOM

Duration: 28 H (4 days)

REST API with Spring Web

The REST architecture
HTTP response codes
REST and Spring MVC
REST Controllers
Serialization and Deserialization
CRUD Operations. Error Handling

Spring Security

Interest of Spring Security
Configure authentication
Manage authorization: OAuth, etc.
Manage profiles
Method-Level Authorization The Spring Security Filter
Application to REST API

OUTLINE

Spring

What is Spring
Inversion of control
Dependency Injection
Spring: configuration
Create a Bean
Property files
Data Management
How to test your code

Spring Boot

Presentation
Expected benefits
Main features
Spring Initializr
Spring Bootstarters
Auto-configuration
Configuration properties
Overriding auto-configuration
The command line

Spring Data, JPA

Data Access
JPA
Benefits of JPA
Configuring JPA
Configure JPA with Spring Boot
Entity and repositories
Adding Spring Data to the project

Spring Boot and the Web

MVC pattern
Basics of Spring MVC
Controller methods. Different annotations
Retrieving parameters. Exception handling
View resolution, Thymeleaf
Using Spring MVC with Spring Boot
Package Spring Boot, JAR or WAR

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Actuators, Metrics and Indicators

- Spring Boot Actuator
- Some Metrics
- Some indicators
- Create your own indicators
- External monitoring systems

Testing with Spring Boot

- Overview
- Integration testing
- Test all application layers