

Spring MVC

This **Spring MVC Training Course** will teach you all the exciting features of this successful Framework by building a complete online shopping web application

Prerequisites

You should be at the level of our [Advanced Java](#) and also [SQL](#) courses . This course teaches you the latest tools to use in developing robust enterprise-wide Java Web Applications

Further Training

[Spring Microservices](#)

Contents

DAY 1:Configuring a Spring Development Environment

- Setting up Java
 - Installing JDK
- Setting up environment variables
 - Installing Maven
 - Installing Tomcat
 - Installing Eclipse STS
- Creating our first Spring MVC project
 - Adding Spring jars to the project
 - MVC
 - adding a welcome page
 - The Dispatcher servlet
 - Deploying and running the project

Spring MVC Architecture – Architecting Your Web Store

- Servlet mapping versus request mapping
 - Web application context
 - View resolvers
- Overview of the Spring MVC request flow
 - The web application architecture
 - The Domain layer
 - The Persistence layer
 - The Service layer

DAY 2:Control Your Store with Controllers

- The role of a Controller in Spring MVC
 - Class-level request mapping
 - Default request mapping method
 - Handler mapping
 - Using URI template patterns
- Showing products based on category
 - Request path variable
 - Using matrix variables
- Showing products based on filters
 - Request parameters
 - Adding a product detail page
- Implementing a master detail View
- Adding multiple filters to list products

Working with Spring Tag Libraries

- JSP Standard Tag Library
- Serving and processing forms
 - Customizing data binding
- Whitelisting form fields for binding
 - Externalizing text messages

DAY 3:Working with View Resolver

- Resolving Views
 - RedirectView
 - Flash attribute
 - Serving static resources
- Adding images to the product detail page
 - Multipart requests in action
- Uploading product user manuals to the server
 - ContentNegotiatingViewResolver
 - HandlerExceptionResolver
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 - Adding an exception handler

Internalize Your Store with Interceptor

- Working with interceptors
- LocaleChangeInterceptor – internationalization
 - Mapped interceptors
- Mapped intercepting offer page requests

Incorporating Spring Security

- Spring Security
- Authenticating users based on roles

DAY 4:Validate Your Products with a Validator

- Bean Validation
- Custom validation with JSR-303/Bean Validation
 - Adding custom validation to a category
 - Spring validation
 - Adding Spring validation
- Combining Spring validation and Bean Validation
- Adding Spring validation to a product image
 - **Give REST to Your Application with Ajax**
 - Introduction to REST
 - Implementing RESTful web services
 - Consuming REST web services
 - Handling web services in Ajax
 - **Float Your Application with Web Flow**
 - Spring Web Flow

- Implementing the order processing service

- Implementing the checkout flow
- Understanding flow definitions
 - Understanding checkout flow
- Creating Views for every view state
 - Adding a decision state

DAY 5:Template with Tiles

- Enhancing reusability through Apache Tiles
 - Creating Views for every View state
 - **Testing Your Application**
 - Unit testing
 - Unit testing domain objects
- Integration testing with the Spring Test context framework
 - Testing product validator
 - Testing product Controllers
 - Testing REST Controllers
- Adding tests for the remaining REST methods
 - **Using the Gradle Build Tool**
 - Installing Gradle
 - The Gradle build script for your project
 - Understanding the Gradle script

Duration and pricing

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Schedule

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