

# 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
  - Adding a ResponseStatus exception
    - 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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