

Koenig Course on Spring MVC

Duration: 4 Days

Day1

Getting started with Spring

What is Spring?

Overview of the Spring Framework

Spring Modules and architecture

A Simple Example

Wiring Beans

Configuring a Properties File

Beans and Containers

Spring Containers

Spring Configuration File

Spring Beans

Using the Container

The BeanFactory Interface

The ApplicationContext Interface

Singleton vs. Prototype

Bean Naming

Dependency Injection

Setter Injection

Constructor Injection

Autowiring

Autowiring through configuration

Autowiring by type and by name

Aspect-Oriented Programming

Day2

Building Spring web applications

Following the life of a request

Setting up Spring MVC

Writing a simple controller

Testing the controller

Defining class-level request handling

Passing model data to the view

Accepting request input

Taking query parameters

Taking input via path parameters

Processing forms

Writing a form-handling controller

Validating forms

Day3

Rendering web views

Understanding view resolution

Creating JSP views

Defining a layout with Apache Tiles views

Advanced Spring MVC

Alternate Spring MVC configuration

Customizing DispatcherServlet configuration

Adding additional servlets and filters

Declaring DispatcherServlet in web.xml

Processing multipart form data

Configuring a multipart resolver

Handling multipart requests

Handling exceptions

Mapping exceptions to HTTP status codes

Writing exception-handling methods

Day4

Securing web applications

Getting started with Spring Security

Intercepting requests

Authenticating users

Spring in the back end

Hitting the database with Spring and JDBC

Configuring a data source

Using JNDI data sources

Using a pooled data source

Using JDBC with Spring

Working with JDBC templates