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Welcome to Spring MVC articles, tutorials and sample projects. This tutorial is designed for beginners as well as professional engineers. Spring MVC is one of popular Web MVC framework for building web applications as well as RESTful web services. In this page, you can find all Spring MVC tutorials, articles and sample projects that are required to build a Spring-based enterprise Java web applications or RESTful APIs. The source code of all the Spring MVC articles, tutorials and examples are published on my GitHub repository at [📁](#). The source code examples of each post are developed using the latest Spring 5.1.0 RELEASE, JDK 8, and Maven 3.2+.

**Spring MVC 5 - Hello World Example** - In this article, we will learn how to create a simple Hello World Spring MVC Application using Spring MVC 5 + JSP, Maven build tool and Eclipse IDE.

**Spring MVC JSP Form Tags Tutorial** - In this tutorial, we're going to discuss all Spring MVC form tags and we will use important Spring MVC form tags such as form tag, text fields tag, select tag, checkbox(s), radio box(s), password tag, button tag, errors tag, etc.

**Spring Boot 2 - Spring MVC + Thymeleaf Input Form Validation** - In this quick article, we will discuss the process of configuring a web application form to support validation. We will use the latest Spring boot 2.0.5 RELEASE, Hibernate validator with Thymeleaf to develop a simple Spring MVC web application. We get Hibernate Validator for free when we use Spring Boot Starter Web.

**Spring @RequestBody and @ResponseBody Annotations** - In this quick article, we will discuss usage Spring @RequestBody and @ResponseBody annotations with examples.

**@RequestBody and @ResponseBody annotations** are used to bind the HTTP request/response body with a domain object in method parameter or return type. Behind the scenes, these annotation uses HTTP Message converters to convert the body of HTTP request/response to domain objects. Watch this course on YouTube at [Spring Boot Tutorial | Fee 10 Hours Full Course A Spring MVC is a Java framework which is used to build web applications. It follows the Model-View-Controller design pattern. It implements all the basic features of a core spring framework like Inversion of Control, Dependency Injection. A Spring MVC provides an elegant solution to use MVC in spring framework by the help of DispatcherServlet. Here, DispatcherServlet is a class that receives the incoming request and maps it to the right resource such as controllers, models, and views. Spring Web Model-View-Controller Model - A model contains the data of the application. A data can be a single object or a collection of objects. Controller - A controller contains the business logic of an application. Here, the @Controller annotation is used to mark the class as the controller. View - A view represents the provided information in a particular format. Generally, JSP+JSTL is used to create a view page. Although spring also supports other view technologies such as Apache Velocity, Thymeleaf and FreeMarker. Front Controller - In Spring Web MVC, the DispatcherServlet class works as the front controller. It is responsible to manage the flow of the Spring MVC application. Understanding the flow of Spring Web MVC As displayed in the figure, all the incoming request is intercepted by the DispatcherServlet that works as the front controller. The DispatcherServlet gets an entry of handler mapping from the XML file and forwards the request to the controller. The controller returns an object of ModelAndView. The DispatcherServlet checks the entry of view resolver in the XML file and invokes the specified view component. Advantages of Spring MVC Framework Let's see some of the advantages of Spring MVC Framework- Separate roles - The Spring MVC separates each role, where the referencing across contexts, such as from web controllers to business objects and validators. Rapid development - The Spring MVC facilitates fast and parallel development. Reusable business code - Instead of creating new objects, it allows us to use the existing business objects. Easy to test - In Spring, generally we create JavaBeans classes that enable you to inject test data using the setter methods. Flexible Mapping - It provides the specific annotations that easily redirect the page. Spring Web MVC Framework Example Let's see the simple example of a Spring Web MVC framework. The steps are as follows: Load the spring jar files or add dependencies in the case of Maven Create the controller class Provide the entry of controller in the web.xml file Define the bean in the separate XML file Display the message in the JSP page Start the server and deploy the project Directory Structure of Spring MVC Directory Structure of Spring MVC using Maven Required Jar files or Maven Dependency To run this example, you need to load: Spring Core jar files Spring Web jar files JSP + JSTL jar files \(If you are using any other view technology then load the corresponding jar files\). Download Link: Download all the jar files for spring including JSP and JSTL. If you are using Maven, you don't need to add jar files. Now, you need to add maven dependency to the pom.xml file. 1. Provide project information and configuration in the pom.xml file. pom.xml 4.0.0 com.javatpoint SpringMVC war 0.0.1-SNAPSHOT SpringMVC Maven Webapp junit-junit 3.8.1 test org.springframework spring-webmvc 5.1.1.RELEASE javax.servlet servlet-api 3.0-alpha-1 SpringMVC To create the controller class, we are using two annotations @Controller and @RequestMapping. The @Controller annotation marks this class as Controller. The @RequestMapping annotation is used to map the class with the specified URL name. HelloController.java package com.javatpoint; import org.springframework.stereotype.Controller; import org.springframework.web.bind.annotation.RequestMapping; @Controller public class HelloController { @RequestMapping\("/"\) public String display\(\) { return "index"; } } In this xml file, we are specifying the servlet class DispatcherServlet that acts as the front controller in Spring Web MVC. All the incoming request for the html file will be forwarded to the DispatcherServlet. web.xml SpringMVC spring org.springframework.web.servlet.DispatcherServlet 1 spring / This is the important configuration file where we need to specify the View components. The context:component-scan element defines the base-package where DispatcherServlet will search the controller class. This xml file should be located inside the WEB-INF directory. spring-servlet.xml This is the simple JSP page, displaying the message returned by the Controller. index.jsp Welcome to Spring MVC Tutorial Output: Download this example \(developed using Eclipse\) Spring MVC Index Next Topic Multiple View Page All Guides This guide walks you through the process of creating a "Hello, World" web site with Spring. It will respond with a web page that displays HTML. The body of the HTML will contain a greeting: "Hello, World!" The name parameter value overrides the default value of World and is reflected in the response by the content changing to "Hello, User!" You can use this pre-initialized project and click Generate to download a ZIP file. This project is configured to fit the examples in this tutorial. To manually initialize the project, navigate to . This service pulls in all the dependencies you need for an application and does most of the setup for you. Choose either Gradle or Maven and the language you want to use. This guide assumes that you chose Java. Click Dependencies and select Spring Web, Thymeleaf, and Spring Boot DevTools. Click Generate. Download the resulting ZIP file, which is an archive of a web application that is configured with your choices. If your IDE has the Spring Initializr integration, you can complete this process from your IDE. You can also fork the project from GitHub and open it in your IDE or other editor. In Spring's approach to building web sites, HTTP requests are handled by a controller. You can easily identify the controller by the @Controller annotation. In the following example, GreetingController handles GET requests for /greeting by returning the name of a View \(in this case, greeting\). A View is responsible for rendering the HTML content. The following listing \(from src/main/java/com/example/servlet/GreetingController.java\) shows the controller: package com.example.servingwebcontent; import org.springframework.stereotype.Controller; import org.springframework.ui.Model; import org.springframework.web.bind.annotation.GetMapping; import org.springframework.web.bind.annotation.RequestMapping; @Controller public class GreetingController { @GetMapping\("/greeting"\) public String greeting\(@RequestParam\(name="name", required=false, defaultValue="World"\) String name, Model model\) { model.addAttribute\("name", name\); return "greeting"; } } This controller is concise and simple, but there is plenty going on. We break it down step by step. The @GetMapping annotation ensures that HTTP GET requests to /greeting are mapped to the greeting\(\) method. @RequestParam binds the value of the query string parameter name into the name parameter of the greeting\(\) method. This query string parameter is not required. If it is absent in the request, the defaultValue of World is used. The value of the name parameter is added to a Model object, ultimately making it accessible to the view template. The implementation of the method body relies on a view technology \(in this case, Thymeleaf\) to perform server-side rendering of the HTML. Thymeleaf parses the greeting.html template and evaluates the th:text expression to render the value of the \\${name} parameter that was set in the controller. The following listing \(from src/main/resources/templates/greeting.html\) shows the greeting.html template: Getting Started: Serving Web Content Make sure you have Thymeleaf on your classpath \(artifact co-ordinates: org.springframework.boot:spring-boot-starter-thymeleaf\). It is already there in the "initial" and "complete" samples in GitHub. A common feature of developing web applications is coding a change, restarting your application, and refreshing the browser to view the change. This entire process can eat up a lot of time. To speed up this refresh cycle, Spring Boot offers with a handy module known as spring-boot-devtools. Spring Boot Devtools: Enables hot swapping. Switches template engines to disable caching. Enables LiveReload to automatically refresh the browser. Other reasonable defaults based on development instead of production. The Spring Initializr creates an application class for you. In this case, you need not further modify the class provided by the Spring Initializr. The following listing \(from src/main/java/com/example/servlet/GreetingController.java\) shows the application class: package com.example.servingwebcontent; import org.springframework.boot.SpringApplication; import org.springframework.boot.autoconfigure.SpringBootApplication; @SpringBootApplication public class ServingWebContentApplication { public static void main\(String\[\] args\) { SpringApplication.run\(ServingWebContentApplication.class, args\); } } @SpringBootApplication is a convenience annotation that adds all of the following: @Configuration: Tells Spring to look for other components, configurations, and services in the com/example package, letting it find the controllers. The main\(\) method uses Spring Boot's SpringApplication.run\(\) method to launch an application. Did you notice that there was not a single line of XML? There is no web.xml file, either. This web application is 100% pure Java and you did not have to deal with configuring any plumbing or infrastructure. You can run the application from the command line with Gradle or Maven. You can also build a single executable JAR file that contains all the necessary dependencies, classes, and resources and run that. Building an executable jar makes it easy to ship, version, and deploy the service as an application throughout the development lifecycle, across different environments, and so forth. If you use Gradle, you can run the application by using ./gradlew bootRun. Alternatively, you can build the JAR file by using ./gradlew build and then run the JAR file, as follows: java -jar build/libs/gs-serving-web-content-0.1.0.jar If you use Maven, you can run the application by using ./mvnw spring-boot:run. Alternatively, you can build the JAR file with ./mvnw clean package and then run the JAR file, as follows: java -jar target/gs-serving-web-content-0.1.0.jar Logging output is displayed. The application should be up and running within a few seconds. This change demonstrates that the @RequestParam arrangement in GreetingController is working as expected. The name parameter has been given a default value of World, but it can be explicitly overridden through the query string. Static resources, including HTML and JavaScript and CSS, can be served from your Spring Boot application by dropping them into the right place in the source code. By default, Spring Boot serves static content from resources in the classpath at /static \(or /public\). The index.html resource is special because, if it exists, it is used as a "welcome page," serving-web-content/ which means it is served up as the root resource \(that is, at /\). As a result, you need to create the following file \(which you can find in src/main/resources/static/index.html\): Getting Started: Serving Web Content Get your greeting here Congratulations! You have just developed a web page by using Spring.](#)

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