**Demo1 (Simple MVC)**

**HelloController.java**

**package** com.controller;

**import** org.springframework.stereotype.Controller;

**import** org.springframework.web.bind.annotation.RequestMapping;

@Controller

**public** **class** HelloController {

@RequestMapping("/")

**public** String hello()

{

**return** "index";

}

}

index.jsp

<html>

<body>

<h2>Hello World!</h2>

</body>

</html>

web.xml

<!DOCTYPE web-app PUBLIC

"-//Sun Microsystems, Inc.//DTD Web Application 2.3//EN"

"http://java.sun.com/dtd/web-app\_2\_3.dtd" >

<web-app>

<display-name>Archetype Created Web Application</display-name>

<servlet>

<servlet-name>hello</servlet-name>

<servlet-class>org.springframework.web.servlet.DispatcherServlet</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>hello</servlet-name>

<url-pattern>/</url-pattern>

</servlet-mapping>

</web-app>

hello-servlet.xml

<?xml version=*"1.0"* encoding=*"UTF-8"*?>

<beans xmlns=*"http://www.springframework.org/schema/beans"*

xmlns:xsi=*"http://www.w3.org/2001/XMLSchema-instance"*

xmlns:context=*"http://www.springframework.org/schema/context"*

xsi:schemaLocation=*"http://www.springframework.org/schema/beans http://www.springframework.org/schema/beans/spring-beans-3.0.xsd*

*http://www.springframework.org/schema/context http://www.springframework.org/schema/context/spring-context-3.0.xsd"*>

<context:component-scan base-package=*"com.controller"*></context:component-scan>

<bean id=*"viewresolver"* class=*"org.springframework.web.servlet.view.InternalResourceViewResolver"*>

<property name=*"prefix"* value=*"WEB-INF/views/"*></property>

<property name=*"suffix"* value=*".jsp"*></property>

</bean>

</beans>

pom.xml

<project xmlns=*"http://maven.apache.org/POM/4.0.0"* xmlns:xsi=*"http://www.w3.org/2001/XMLSchema-instance"*

xsi:schemaLocation=*"http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4\_0\_0.xsd"*>

<modelVersion>4.0.0</modelVersion>

<groupId>com.stackroute</groupId>

<artifactId>session5web1</artifactId>

<packaging>war</packaging>

<version>0.0.1-SNAPSHOT</version>

<name>session5web1 Maven Webapp</name>

<url>http://maven.apache.org</url>

<dependencies>

<dependency>

<groupId>junit</groupId>

<artifactId>junit</artifactId>

<version>4.12</version>

<scope>test</scope>

</dependency>

<!-- https://mvnrepository.com/artifact/org.springframework/spring-webmvc -->

<dependency>

<groupId>org.springframework</groupId>

<artifactId>spring-webmvc</artifactId>

<version>5.1.5.RELEASE</version>

</dependency>

<!-- https://mvnrepository.com/artifact/org.springframework/spring-webmvc -->

<dependency>

<groupId>org.springframework</groupId>

<artifactId>spring-webmvc</artifactId>

<version>5.1.5.RELEASE</version>

</dependency>

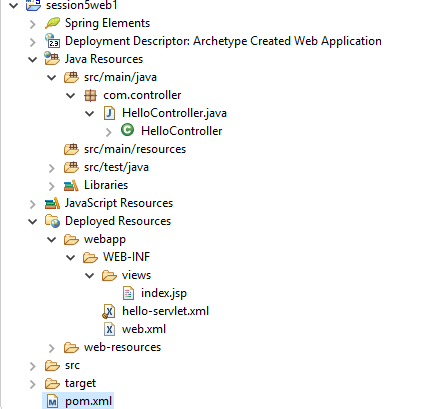
</dependencies>

<build>

<finalName>session5web1</finalName>

</build>

</project>



Demo2

HelloController.java

**package** com.controller;

**import** org.springframework.stereotype.Controller;

**import** org.springframework.ui.Model;

**import** org.springframework.web.bind.annotation.RequestMapping;

**import** com.model.Hello;

@Controller

**public** **class** HelloController {

@RequestMapping("/")

**public** String hello(Model model)

{

Hello hello=**new** Hello();

hello.setGreet("Hello Friends");

model.addAttribute("hello",hello);

**return** "hello";

}

}

Hello.java

**package** com.model;

**public** **class** Hello {

String greet;

**public** String getGreet() {

**return** greet;

}

**public** **void** setGreet(String greet) {

**this**.greet = greet;

}

@Override

**public** String toString() {

**return** "Hello [greet=" + greet + ", getGreet()=" + getGreet() + ", getClass()=" + getClass() + ", hashCode()="

+ hashCode() + ", toString()=" + **super**.toString() + "]";

}

}

hello.jsp

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"* isELIgnored=*"false"*%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

${hello}

</body>

</html>

web.xml

<!DOCTYPE web-app PUBLIC

"-//Sun Microsystems, Inc.//DTD Web Application 2.3//EN"

"http://java.sun.com/dtd/web-app\_2\_3.dtd" >

<web-app>

<servlet>

<servlet-name>hello</servlet-name>

<servlet-class>org.springframework.web.servlet.DispatcherServlet</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>hello</servlet-name>

<url-pattern>/</url-pattern>

</servlet-mapping>

<display-name>Archetype Created Web Application</display-name>

</web-app>

hello-servlet.xml

<?xml version=*"1.0"* encoding=*"UTF-8"*?>

<beans xmlns=*"http://www.springframework.org/schema/beans"*

xmlns:xsi=*"http://www.w3.org/2001/XMLSchema-instance"*

xmlns:context=*"http://www.springframework.org/schema/context"*

xsi:schemaLocation=*"http://www.springframework.org/schema/beans http://www.springframework.org/schema/beans/spring-beans-3.0.xsd*

*http://www.springframework.org/schema/context http://www.springframework.org/schema/context/spring-context-3.0.xsd"*>

<context:component-scan base-package=*"com.controller"*></context:component-scan>

<bean id=*"viewresolver"* class=*"org.springframework.web.servlet.view.InternalResourceViewResolver"*>

<property name=*"prefix"* value=*"WEB-INF/views/"*></property>

<property name=*"suffix"* value=*".jsp"*></property>

</bean>

</beans>

pom.xml

<project xmlns=*"http://maven.apache.org/POM/4.0.0"* xmlns:xsi=*"http://www.w3.org/2001/XMLSchema-instance"*

xsi:schemaLocation=*"http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4\_0\_0.xsd"*>

<modelVersion>4.0.0</modelVersion>

<groupId>com.stackroute</groupId>

<artifactId>session5web2</artifactId>

<packaging>war</packaging>

<version>0.0.1-SNAPSHOT</version>

<name>session5web2 Maven Webapp</name>

<url>http://maven.apache.org</url>

<dependencies>

<dependency>

<groupId>junit</groupId>

<artifactId>junit</artifactId>

<version>4.12</version>

<scope>test</scope>

</dependency>

<!-- https://mvnrepository.com/artifact/org.springframework/spring-webmvc -->

<dependency>

<groupId>org.springframework</groupId>

<artifactId>spring-webmvc</artifactId>

<version>5.1.5.RELEASE</version>

</dependency>

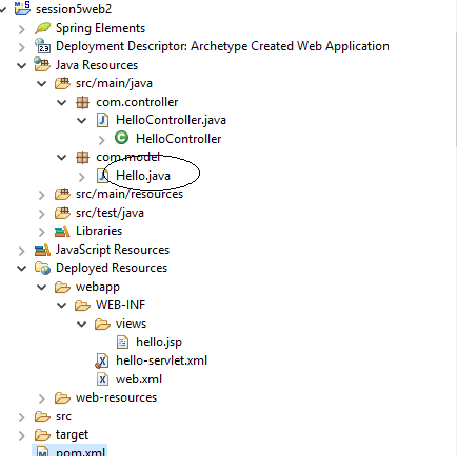
</dependencies>

<build>

<finalName>session5web2</finalName>

</build>

</project>



StudentController.java

**package** com.controller;

**import** java.util.List;

**import** org.springframework.stereotype.Controller;

**import** org.springframework.ui.Model;

**import** org.springframework.web.bind.annotation.RequestMapping;

**import** com.model.Student;

**import** com.service.StudentService;

@Controller

**public** **class** StudentContoller {

@RequestMapping("/")

**public** String displayAllStudents(Model model)

{

StudentService studentService=**new** StudentService();

List<Student> studentList=studentService.studentList();

model.addAttribute("studentList",studentList);

**return** "disp";

}

}

Student.java

**package** com.model;

**public** **class** Student {

**private** **int** roll;

**private** String name;

**public** **int** getRoll() {

**return** roll;

}

**public** **void** setRoll(**int** roll) {

**this**.roll = roll;

}

**public** String getName() {

**return** name;

}

**public** **void** setName(String name) {

**this**.name = name;

}

}

StudentService.java

**package** com.service;

**import** java.util.\*;

**import** com.model.\*;

**public** **class** StudentService {

**private** List<Student> students=**new** ArrayList<Student>();

**public** List<Student> studentList()

{

Student student1=**new** Student();

student1.setRoll(1);

student1.setName("Raghav");

Student student2=**new** Student();

student2.setRoll(2);

student2.setName("Ananda");

students.add(student1);

students.add(student2);

**return** students;

}

}

disp.jsp

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"* isELIgnored=*"false"*%>

<%@ taglib prefix=*"c"* uri=*"http://java.sun.com/jsp/jstl/core"* %>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<c:forEach items=*"*${studentList}*"* var=*"student"*>

${student.roll}

${student.name}

</c:forEach>

</body>

</html>

Web.xml

<!DOCTYPE web-app PUBLIC

"-//Sun Microsystems, Inc.//DTD Web Application 2.3//EN"

"http://java.sun.com/dtd/web-app\_2\_3.dtd" >

<web-app>

<display-name>Archetype Created Web Application</display-name>

<servlet>

<servlet-name>student</servlet-name>

<servlet-class>org.springframework.web.servlet.DispatcherServlet</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>student</servlet-name>

<url-pattern></url-pattern>

</servlet-mapping>

</web-app>

student-servlet.xml

<?xml version=*"1.0"* encoding=*"UTF-8"*?>

<beans xmlns=*"http://www.springframework.org/schema/beans"*

xmlns:xsi=*"http://www.w3.org/2001/XMLSchema-instance"*

xmlns:context=*"http://www.springframework.org/schema/context"*

xsi:schemaLocation=*"http://www.springframework.org/schema/beans http://www.springframework.org/schema/beans/spring-beans-3.0.xsd*

*http://www.springframework.org/schema/context http://www.springframework.org/schema/context/spring-context-3.0.xsd"*>

<context:component-scan base-package=*"com.controller"*></context:component-scan>

<bean id=*"viewresolver"* class=*"org.springframework.web.servlet.view.InternalResourceViewResolver"*>

<property name=*"prefix"* value=*"WEB-INF/views/"*></property>

<property name=*"suffix"* value=*".jsp"*></property>

</bean>

</beans>

pom.xml

<project xmlns=*"http://maven.apache.org/POM/4.0.0"* xmlns:xsi=*"http://www.w3.org/2001/XMLSchema-instance"*

xsi:schemaLocation=*"http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4\_0\_0.xsd"*>

<modelVersion>4.0.0</modelVersion>

<groupId>com.stackroute</groupId>

<artifactId>session5web3</artifactId>

<packaging>war</packaging>

<version>0.0.1-SNAPSHOT</version>

<name>session5web3 Maven Webapp</name>

<url>http://maven.apache.org</url>

<dependencies>

<dependency>

<groupId>junit</groupId>

<artifactId>junit</artifactId>

<version>3.8.1</version>

<scope>test</scope>

</dependency>

<!-- https://mvnrepository.com/artifact/org.springframework/spring-webmvc -->

<dependency>

<groupId>org.springframework</groupId>

<artifactId>spring-webmvc</artifactId>

<version>5.1.5.RELEASE</version>

</dependency>

<!-- https://mvnrepository.com/artifact/javax.servlet.jsp.jstl/jstl -->

<dependency>

<groupId>jstl</groupId>

<artifactId>jstl</artifactId>

<version>1.2</version>

</dependency>

</dependencies>

<build>

<finalName>session5web3</finalName>

</build>

</project>

Demo4

**package** com.controller;

**import** org.springframework.stereotype.Controller;

**import** org.springframework.ui.Model;

**import** org.springframework.web.bind.annotation.ModelAttribute;

**import** org.springframework.web.bind.annotation.RequestMapping;

**import** com.model.Book;

@Controller

**public** **class** BookController {

@RequestMapping("/bookinsert")

**public** String insert()

{

**return** "insert";

}

@RequestMapping("/bookdisplay")

**public** String displayBook(@ModelAttribute("book") Book book,Model map)

{

map.addAttribute("book",book);

**return** "dispb";

}

}

**package** com.model;

**public** **class** Book {

**private** **int** id;

**private** String name;

**public** **int** getId() {

**return** id;

}

**public** **void** setId(**int** id) {

**this**.id = id;

}

**public** String getName() {

**return** name;

}

**public** **void** setName(String name) {

**this**.name = name;

}

}

insert.jsp

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<form action=*"bookdisplay"*>

<input type=*"text"* name=*"id"*/><input type=*"text"* name=*"name"*/>

<input type=*"submit"*/>

</form>

</body>

</html>

dispb.jsp

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"* isELIgnored=*"false"*%>

<%@ taglib prefix=*"c"* uri=*"http://java.sun.com/jsp/jstl/core"* %>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

I am disp Book

${book.id}

${book.name}

</body>

</html>

Demo5

**package** com.controller;

**import** java.util.List;

**import** org.springframework.stereotype.Controller;

**import** org.springframework.ui.Model;

**import** org.springframework.web.bind.annotation.ModelAttribute;

**import** org.springframework.web.bind.annotation.RequestMapping;

**import** com.model.Book;

**import** com.service.BookService;

@Controller

**public** **class** BookController1 {

BookService bookService=**new** BookService();

@RequestMapping("/")

**public** String insert(Model map)

{

List<Book> bookList=bookService.getBookList();

map.addAttribute("booklist",bookList);

**return** "insert";

}

@RequestMapping("/bookadd")

**public** String displayBook(@ModelAttribute("book") Book book,Model map)

{

bookService.addBook(book);

**return** "redirect:/";

}

}

**package** com.model;

**public** **class** Book {

**private** **int** id;

**private** String name;

**public** **int** getId() {

**return** id;

}

**public** **void** setId(**int** id) {

**this**.id = id;

}

**public** String getName() {

**return** name;

}

**public** **void** setName(String name) {

**this**.name = name;

}

}

**package** com.service;

**import** java.util.\*;

**import** com.model.\*;

**public** **class** BookService {

List<Book> bookList=**new** ArrayList<Book>();

**public** List<Book> getBookList()

{

**return** bookList;

}

**public** **void** addBook(Book book) {

bookList.add(book);

}

}

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"* isELIgnored=*"false"*%>

<%@ taglib prefix=*"c"* uri=*"http://java.sun.com/jsp/jstl/core"* %>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<form action=*"bookadd"*>

<input type=*"text"* name=*"id"*/><input type=*"text"* name=*"name"*/>

<input type=*"submit"*/>

</form>

<c:forEach items=*"*${booklist}*"* var=*"book"*>

${book.id}

${book.name}

</c:forEach>

</body>

</html>