



# LAB- Spring Mvc Using Annotations

In this lab you will be understanding how to create a web application using spring mvc using annotations

Before you start, go to SpringToolSuite and add tomcat 8 as a server. Make sure that you deploy to this tomcat 8 whenever you are asked to.

In this lab, you will be working on **02mvc-withannotations-start** project

## Steps

1) Open pom.xml and observe that all the dependencies are inherited from the parent project.

2) First step is to configure DispatcherServlet in web.xml. Complete TODO-1 in web.xml by configuring DispatcherServlet as shown below :

```
<servlet>
    <servlet-name>spring</servlet-name>

<servlet-class>org.springframework.web.servlet.DispatcherServlet</servlet-class>
    <load-on-startup>1</load-on-startup>
</servlet>

<servlet-mapping>
    <servlet-name>spring</servlet-name>
    <url-pattern>*.htm</url-pattern>
</servlet-mapping>
```

3) Now every request ending with .htm will come to DispatcherServlet. Since the servlet name is given as "spring" , we have to configure spring bean configuration file with name spring-servlet.xml. (This default file name can be overridden. We will see it in later steps) Create spring-servlet.xml under WEB-INF

4) Open "WelcomeController" in com.way2learnonline package . Annotate it with @Controller.

Enable component scanning in spring-servlet.xml to scan any sub-package of com.way2learnonline

5) open w.jsp under /WEB-INF/jsp folder and observe the code inside it..

6) Complete TODO-1 inside WelcomeController. Deploy the application inside tomcat. and give request to /welcome.htm and observe that "Hi Welcome to Spring@Mvc " is displayed



7) In Previous step, you have hard coded the view name as `"/WEB-INF/jsp/w.jsp"` inside your method. Since it is a good practise to return "logical view name", you need to configure a view resolver inside `spring-servlet.xml` as shown below :

```
<bean class="org.springframework.web.servlet.view.InternalResourceViewResolver">
    <property name="prefix" value="/WEB-INF/jsp/" />
    <property name="suffix" value=".jsp" />
</bean>
```

Now modify the return value of the method as `"w"`. Deploy the application and give a request to `/welcome.htm` . Make sure that you see the result as expected.

8) Complete TODO-2 to TODO -11 inside `WelcomeController`

**Congratulations !! You know how to create web application using Spring MVC !!**