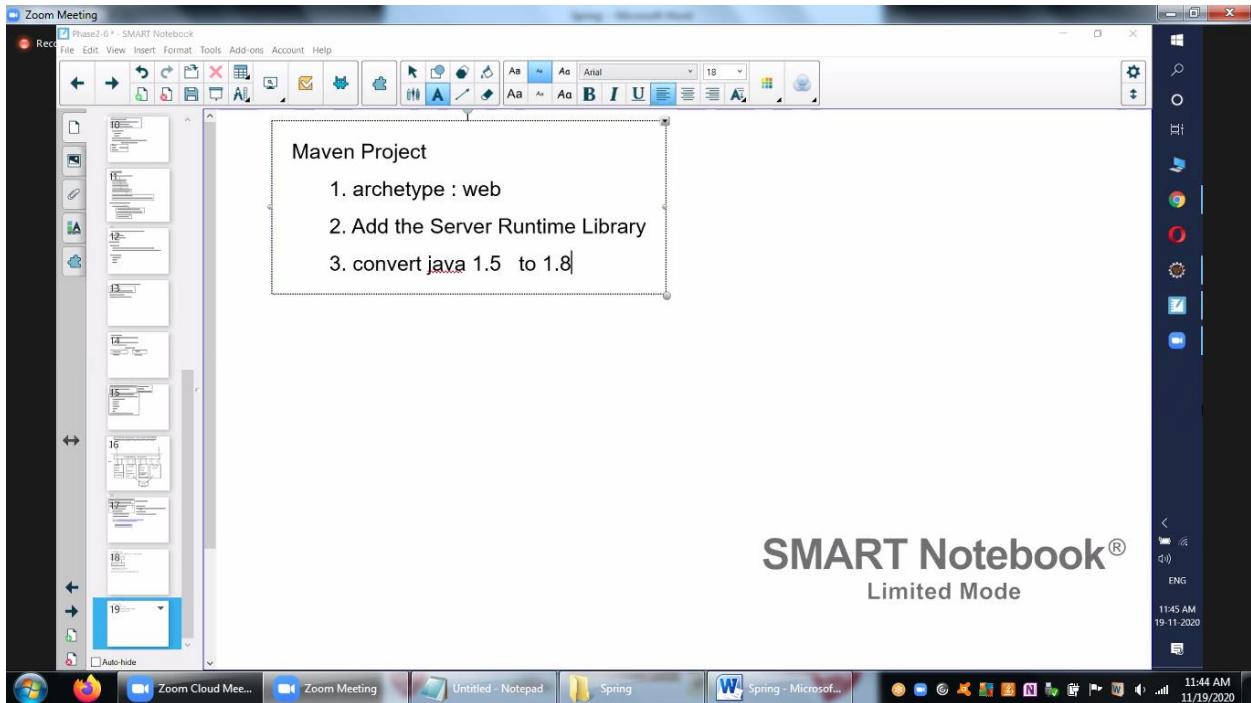
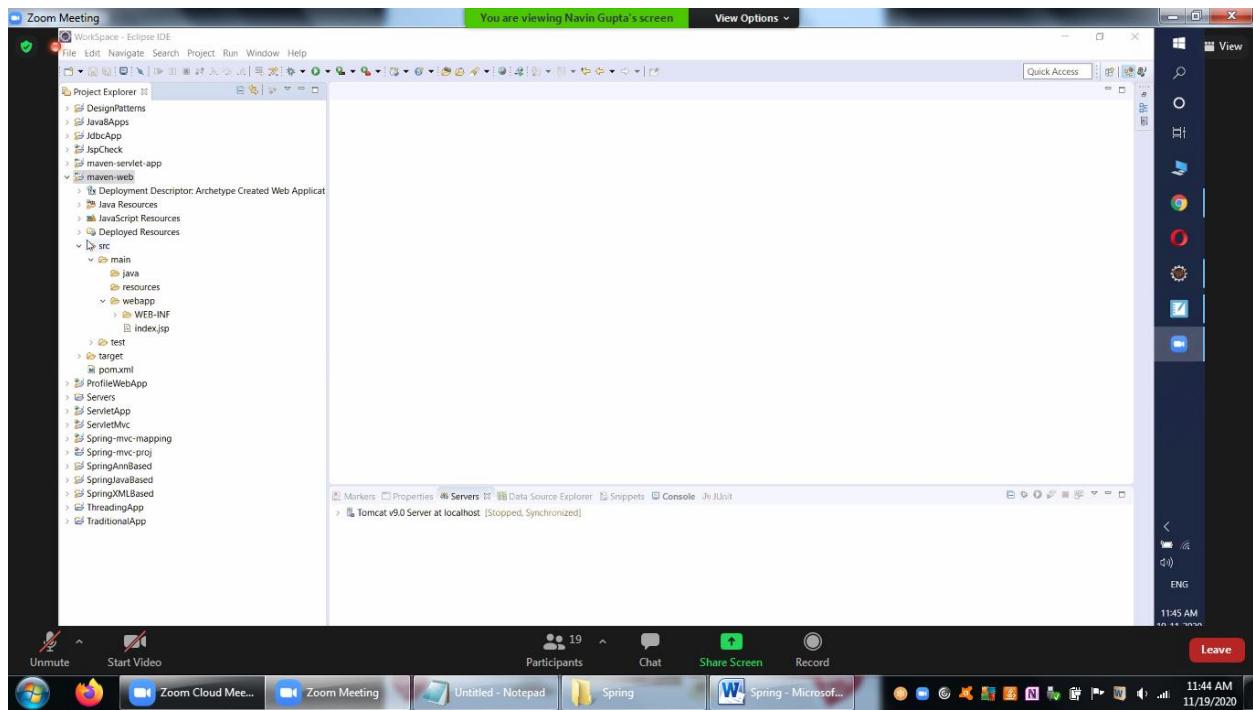
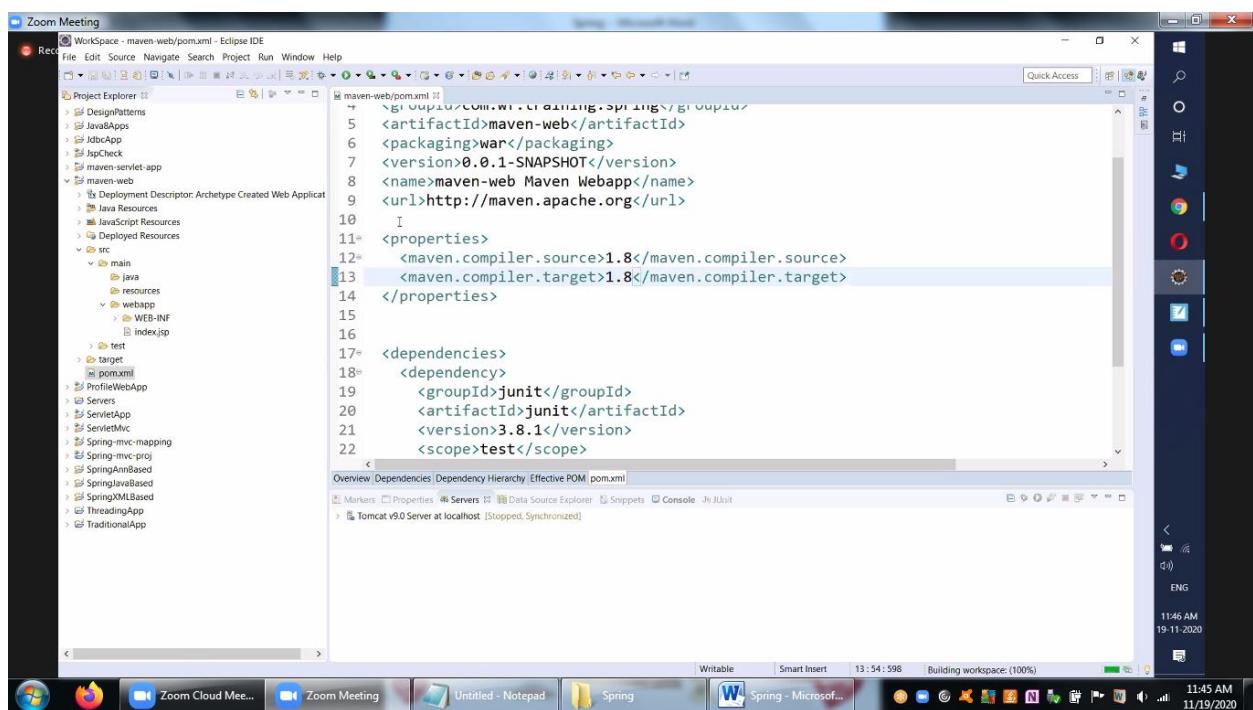


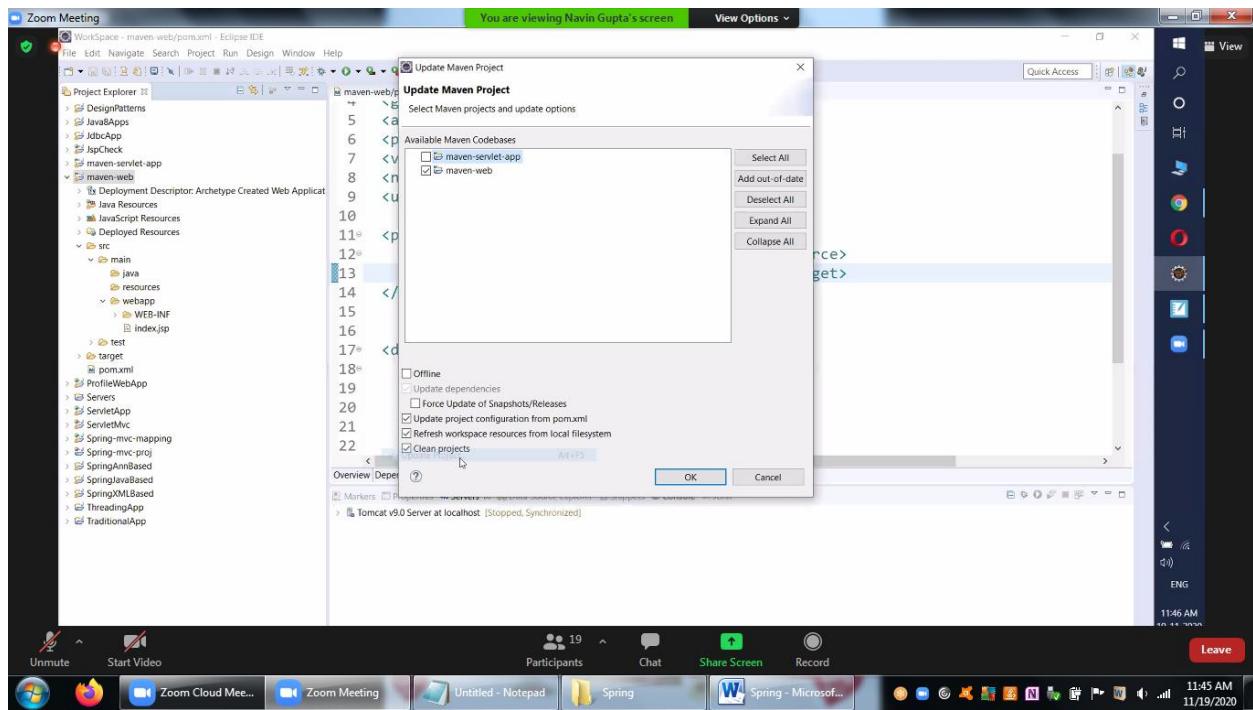
Add the server run time tomcat library



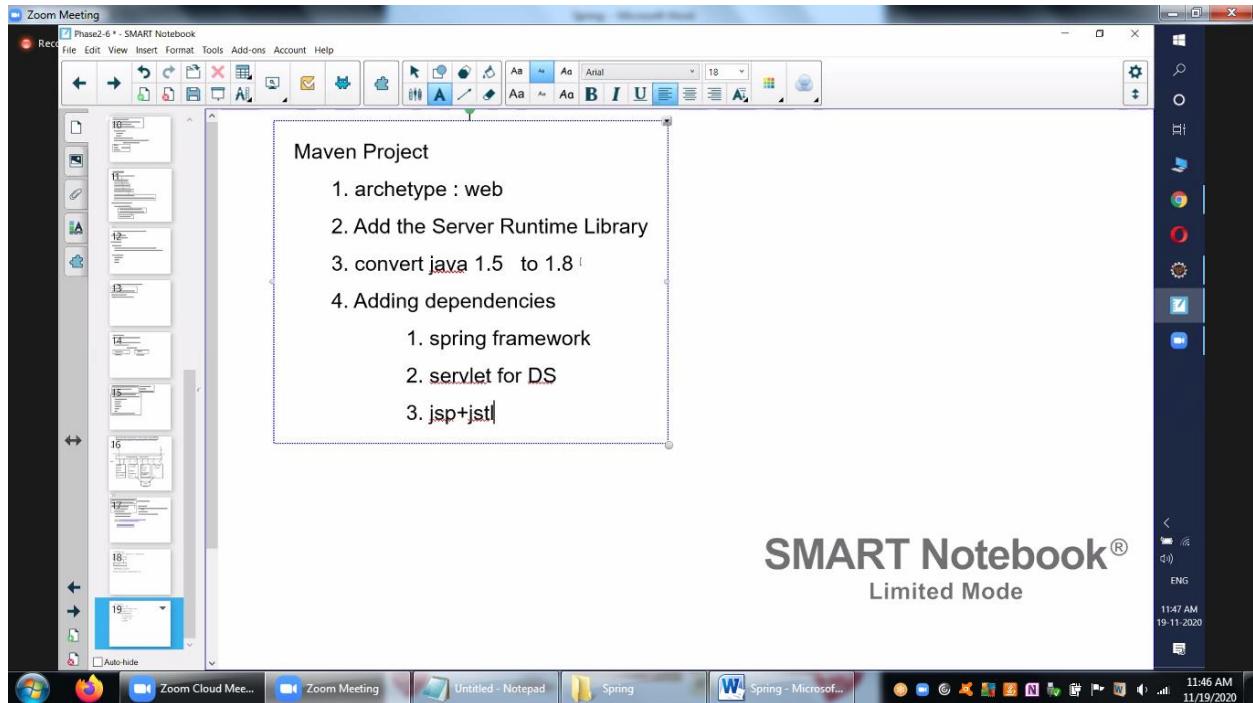


## Add the Java 1.8 support





## Add the dependencies



Zoom Meeting

Maven Repository: spring-webmvc

**MVNREPOSITORY**

spring-webmvc

Found 17724 results

Sort: relevance | popular | newest

1. Spring Web MVC  
org.springframework > spring-webmvc  
Spring Web MVC  
Last Release on Nov 10, 2020

2. Spring Web Portlet  
org.springframework > spring-webmvc-portlet  
Spring Web Portlet  
Last Release on Sep 15, 2020

3. Spring Web MVC Security Framework Based On PAC4J  
org.pac4j > spring-webmvc-pac4j  
Security library for Spring Web MVC based on pac4j  
Last Release on May 13, 2020

4. Spring Data REST WebMVC  
org.springframework.data > spring-data-rest-webmvc  
Spring Data REST - WebMVC  
Last Release on Nov 11, 2020

5. Spring Context  
org.springframework > spring-context  
Spring Context  
Last Release on Nov 10, 2020

4,027 usages Apache

245 usages Apache

84 usages Apache

68 usages Apache

9,792 usages Apache

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Central Sonatype Spring Plugins Spring Lib M Hortonworks Atlassian JCenter JBossEAP JBoss Releases Spring Lib Release

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Popular Tags

android apache api application assets aws build build-system camel client clojure cloud config data database eclipse example extension framework github gradle groovy http io iboss library logging maven model

11:47 AM 11/19/2020

Zoom Meeting

Maven Repository: org.springframework > spring-webmvc/5.3.1

**MVNREPOSITORY**

Spring Web MVC > 5.3.1

Spring Web MVC

Apache 2.0

Web frameworks

Spring IO

https://github.com/spring-projects/spring-framework

(Nov 10, 2020)

jar (966 KB) View All

Central

4,027 artifacts

Maven Gradle SBT Ivy Grape Leiningen Buildr

```
https://mvnrepository.com/artifact/org.springframework/spring-webmvc/5.3.1
<dependency>
    <groupId>org.springframework</groupId>
    <artifactId>spring-webmvc</artifactId>
    <version>5.3.1</version>
</dependency>
```

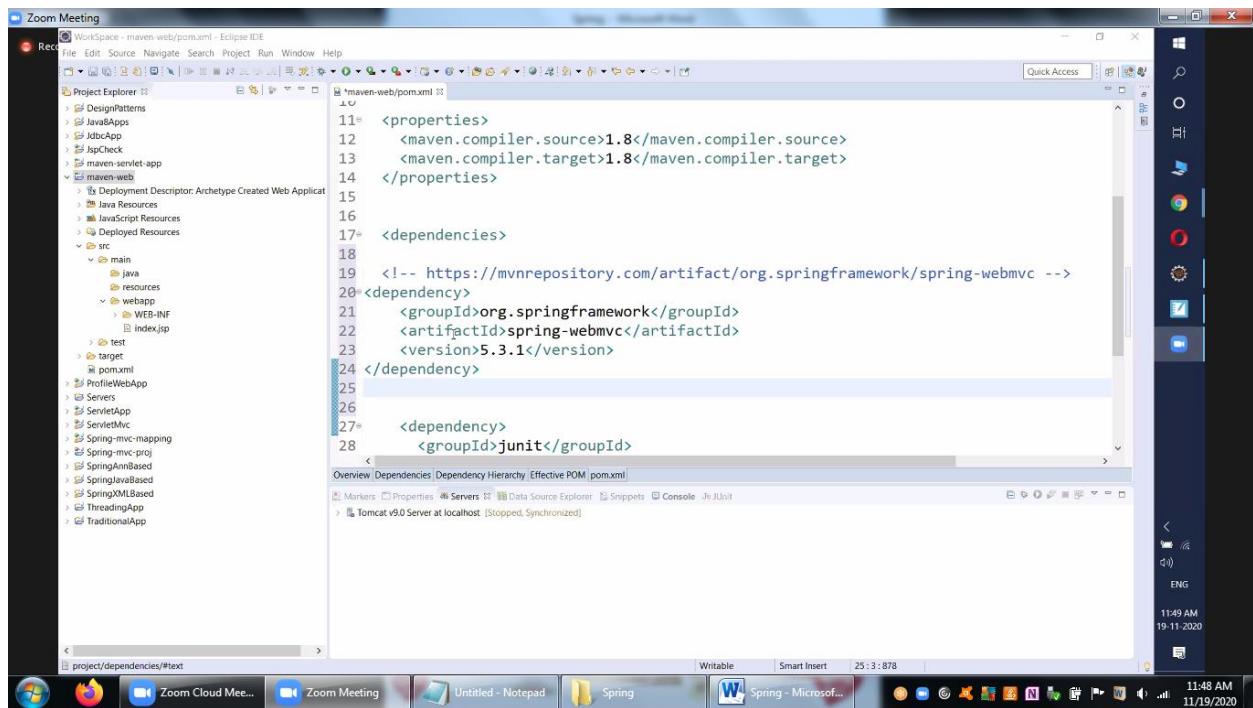
Include comment with link to declaration

Copied to clipboard!

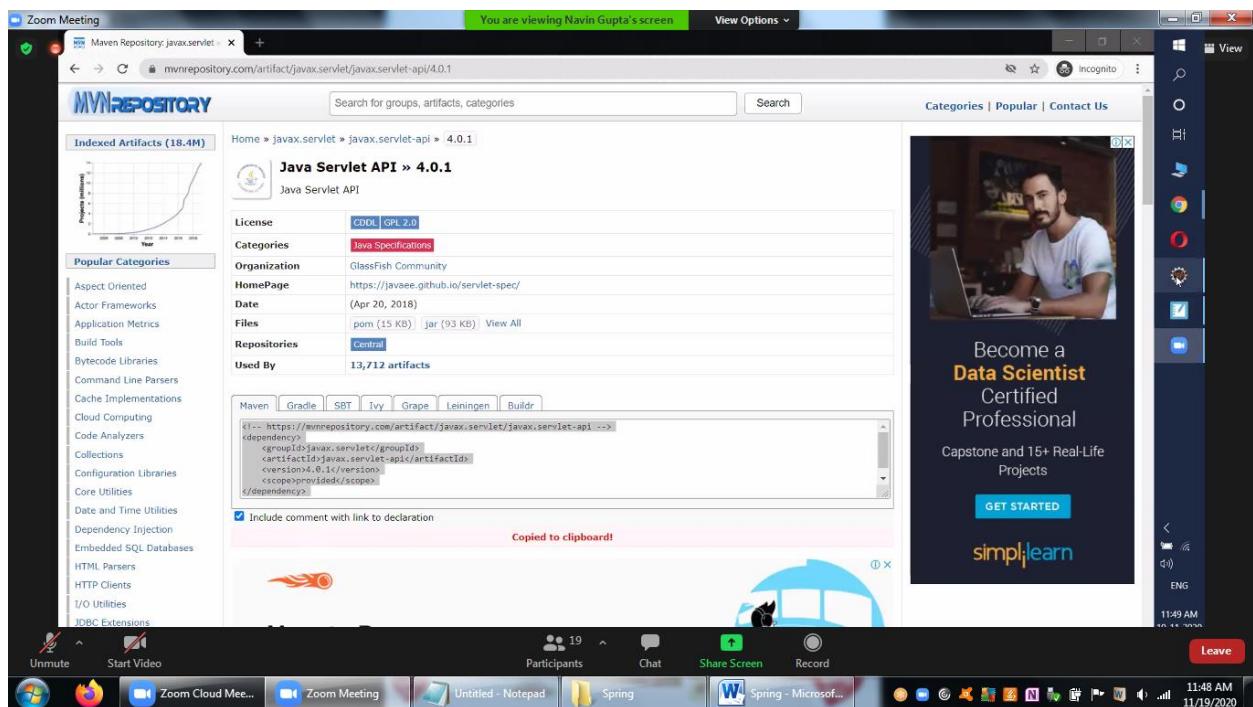
Connecting...

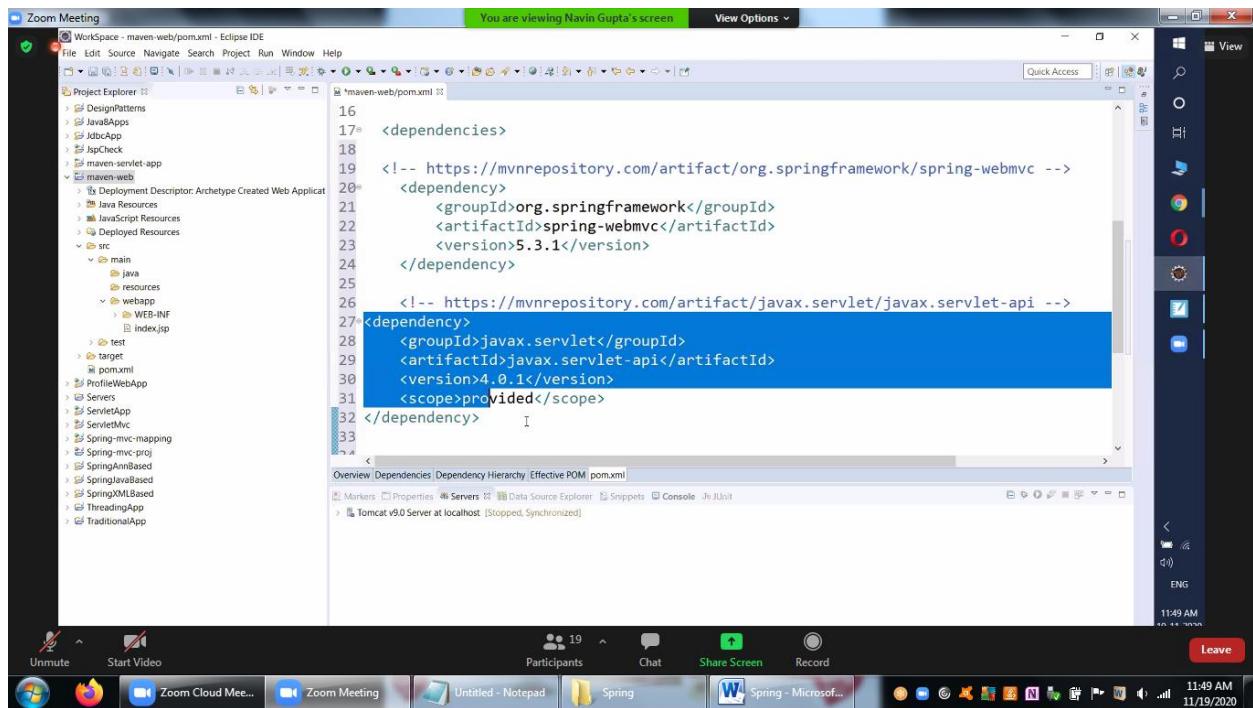
Untitled - Notepad Spring Spring - Microsoft...

11:48 AM 11/19/2020

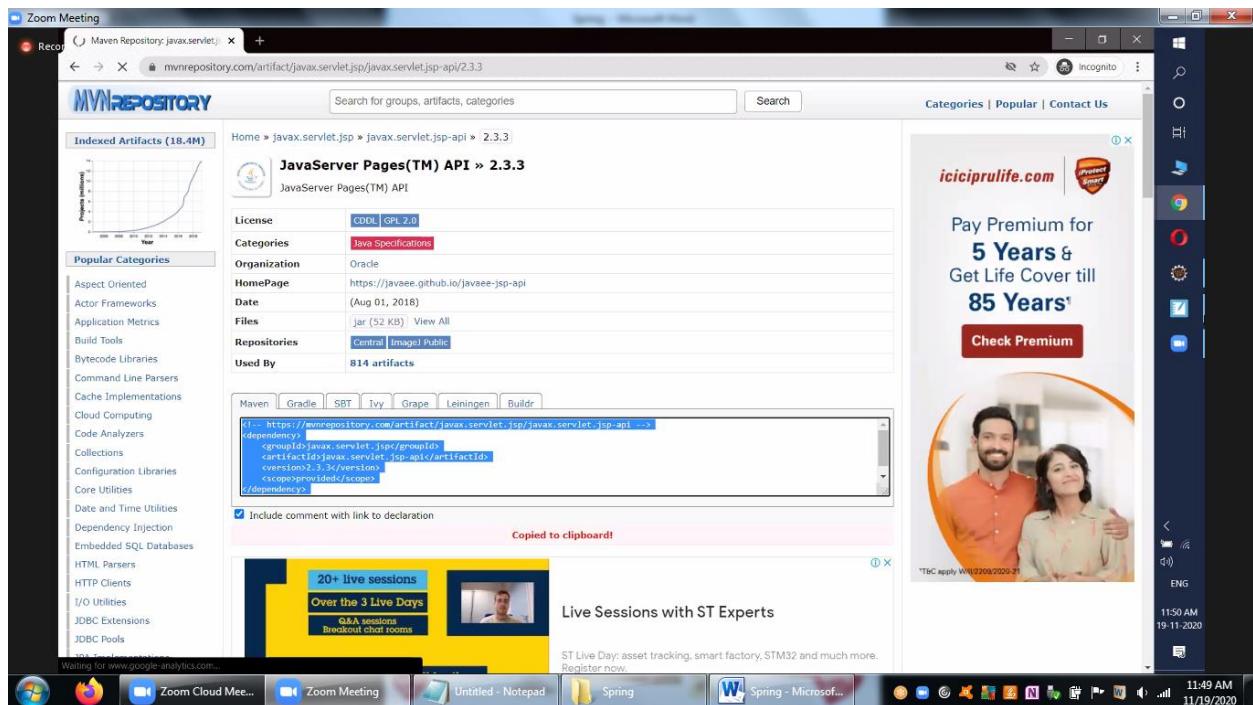


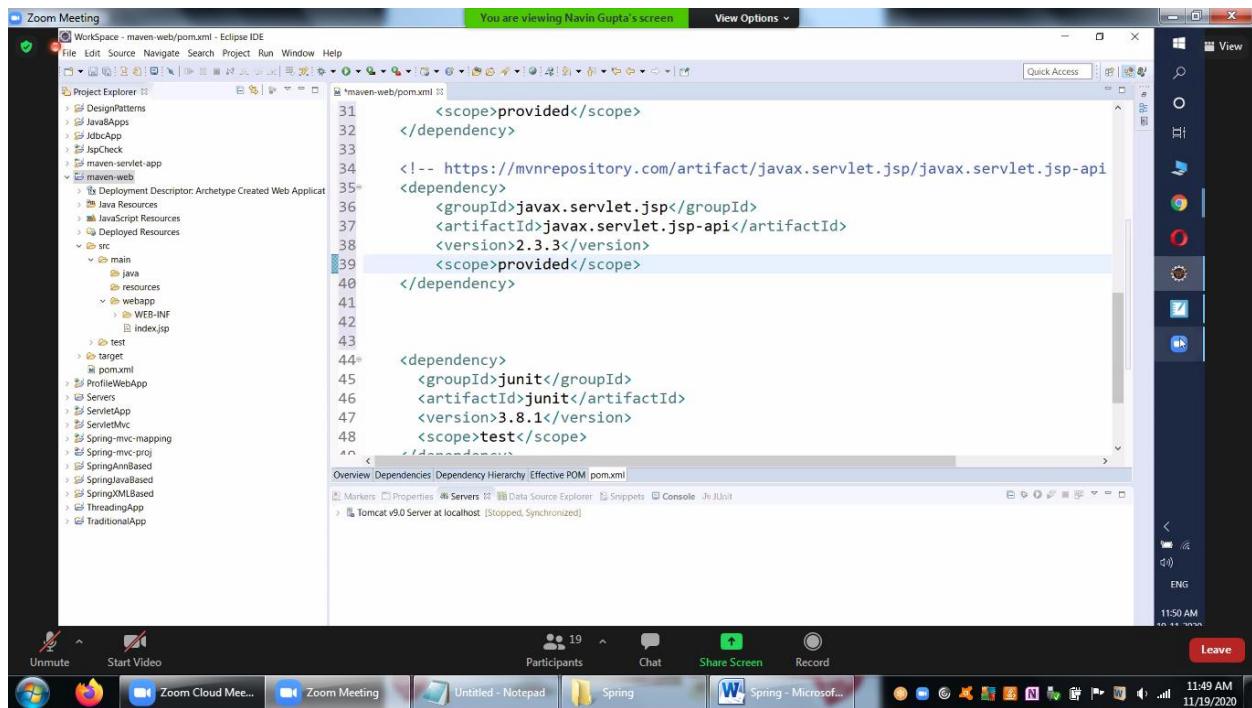
## Dependency for Java Servlet API





## Dependency for JSP





## Dependency for JSTL

The screenshot shows a browser window titled "Zoom Meeting" displaying the Maven Repository page for the JSTL artifact. The URL is <https://mvnrepository.com/artifact/jstl/jstl/1.2>. The page includes a graph showing the popularity of the JSTL project from 2004 to 2006, and a detailed view of the JSTL 1.2 artifact. A code snippet for Maven configuration is shown:

```

<dependency>
    <groupId>jstl</groupId>
    <artifactId>jstl</artifactId>
    <version>1.2</version>
</dependency>

```

The browser interface includes a navigation bar, search bar, and sidebar with links to other categories.

Zoom Meeting

You are viewing Navin Gupta's screen

File Edit Source Navigate Search Project Run Window Help

Project Explorer

- DesignPatterns
- JavaApps
- JdbcApp
- JspCheck
- maven-servlet-app
- maven-web
  - Deployment Descriptor: Archetype Created Web Application
  - Java Resources
  - JavaScript Resources
  - Deployed Resources
  - src
    - main
      - java
      - resources
      - webapp
        - WEB-INF
        - index.jsp
    - test
  - target
  - pom.xml
- ProfileWebApp
- Servers
- ServletApp
- ServletMvc
- Spring-mvc-mapping
- Spring-mvc-proj
- SpringAnnotations
- SpringJavaBased
- SpringXMLBased
- SpringMLBased
- ThreadingApp
- TraditionalApp

maven-web/pom.xml

```
<scope>provided</scope>
</dependency>
<!-- https://mvnrepository.com/artifact/javax.servlet.jsp/javax.servlet.jsp-api
<dependency>
    <groupId>javax.servlet.jsp</groupId>
    <artifactId>javax.servlet.jsp-api</artifactId>
    <version>2.3.3</version>
    <scope>provided</scope>
</dependency>
<!-- https://mvnrepository.com/artifact/jstl/jstl -->
<dependency>
    <groupId>jstl</groupId>
    <artifactId>jstl</artifactId>
    <version>1.2</version>
</dependency>
```

Overview Dependencies Dependency Hierarchy Effective POM pom.xml

Markers Properties Servers Data Source Explorer Snippets Console JUnit

Tomcat v9.0 Server at localhost [Stopped, Synchronized]

Unmute Start Video Participants Chat Share Screen Record

Leave

Zoom Cloud Meet... Zoom Meeting Untitled - Notepad Spring W Spring - Microsoft... 11:50 AM 11/19/2020

## Building workspace

Zoom Meeting

Record

File Edit Navigate Search Project Run Design Window Help

Project Explorer

- DesignPatterns
- JavaApps
- JdbcApp
- JspCheck
- maven-servlet-app
- maven-web
  - Deployment Descriptor: Archetype Created Web Application
  - Java Resources
  - JavaScript Resources
  - Deployed Resources
  - src
    - main
      - java
      - resources
      - webapp
        - WEB-INF
        - index.jsp
    - target
    - pom.xml
  - ProfileWebApp
  - Servers
  - ServletApp
  - ServletMvc
  - Spring-mvc-mapping
  - Spring-mvc-proj
  - SpringAnnotations
  - SpringJavaBased
  - SpringXMLBased
  - SpringMLBased
  - ThreadingApp
  - TraditionalApp

maven-web/pom.xml

```
<scope>provided</scope>
</dependency>
<!-- https://mvnrepository.com/artifact/javax.servlet.jsp/javax.servlet.jsp-api
<dependency>
    <groupId>javax.servlet.jsp</groupId>
    <artifactId>javax.servlet.jsp-api</artifactId>
    <version>2.3.3</version>
    <scope>provided</scope>
</dependency>
<!-- https://mvnrepository.com/artifact/jstl/jstl -->
<dependency>
    <groupId>jstl</groupId>
    <artifactId>jstl</artifactId>
    <version>1.2</version>
</dependency>
```

Overview Dependencies Dependency Hierarchy Effective POM pom.xml

Markers Properties Servers Data Source Explorer Snippets Console JUnit

Tomcat v9.0 Server at localhost [Stopped, Synchronized]

Building workspace: (97%)

Untitled - Notepad Spring W Spring - Microsoft... 11:51 AM 11/19/2020

## Delete and add new xml

The screenshot shows the Eclipse IDE interface. The Project Explorer view on the left lists several projects and their components. The central editor window displays the content of a pom.xml file. A specific line of XML code is selected:

```
31     <scope>provided</scope>
32   </dependency>
33
34   <!-- https://mvnrepository.com/artifact/javax.servlet.jsp/javax.servlet.jsp-api
35   <dependency>
36     <groupId>javax.servlet.jsp</groupId>
37     <artifactId>javax.servlet.jsp-api</artifactId>
38     <version>2.3.3</version>
39     <scope>provided</scope>
40   </dependency>
41
42   <!-- https://mvnrepository.com/artifact/jstl/jstl -->
43   <dependency>
44     <groupId>jstl</groupId>
45     <artifactId>jstl</artifactId>
46     <version>1.2</version>
47   </dependency>
48
```

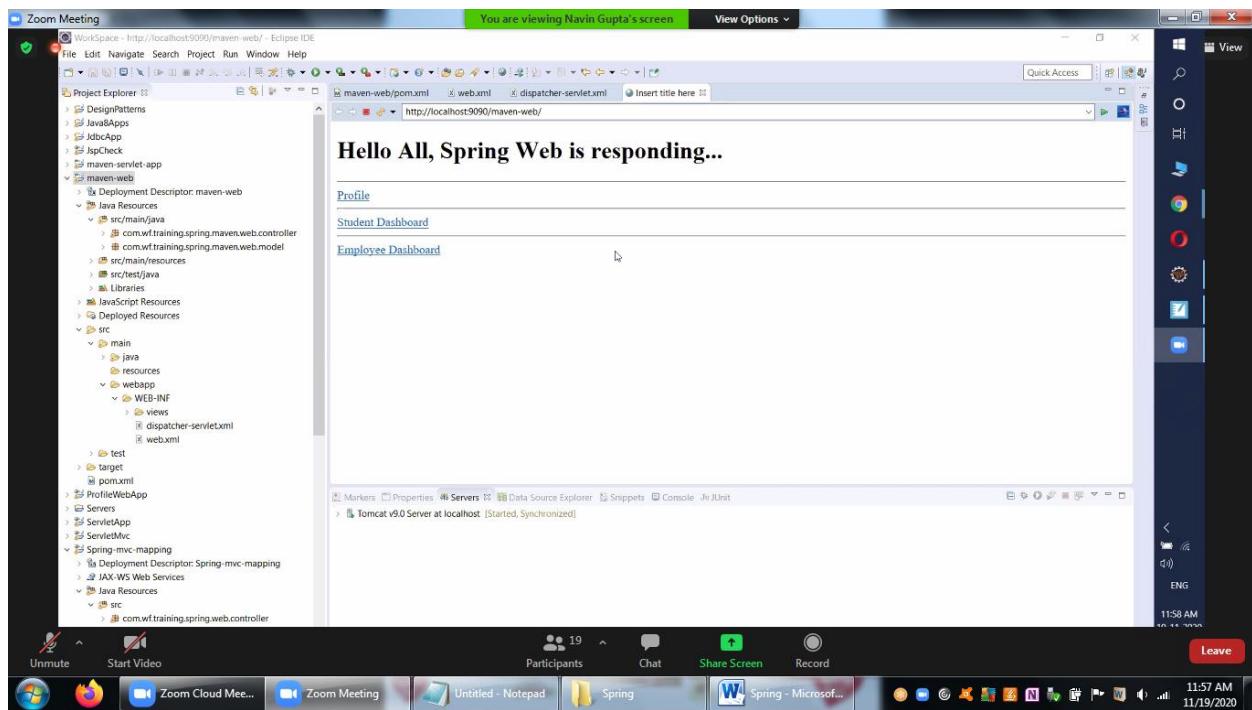
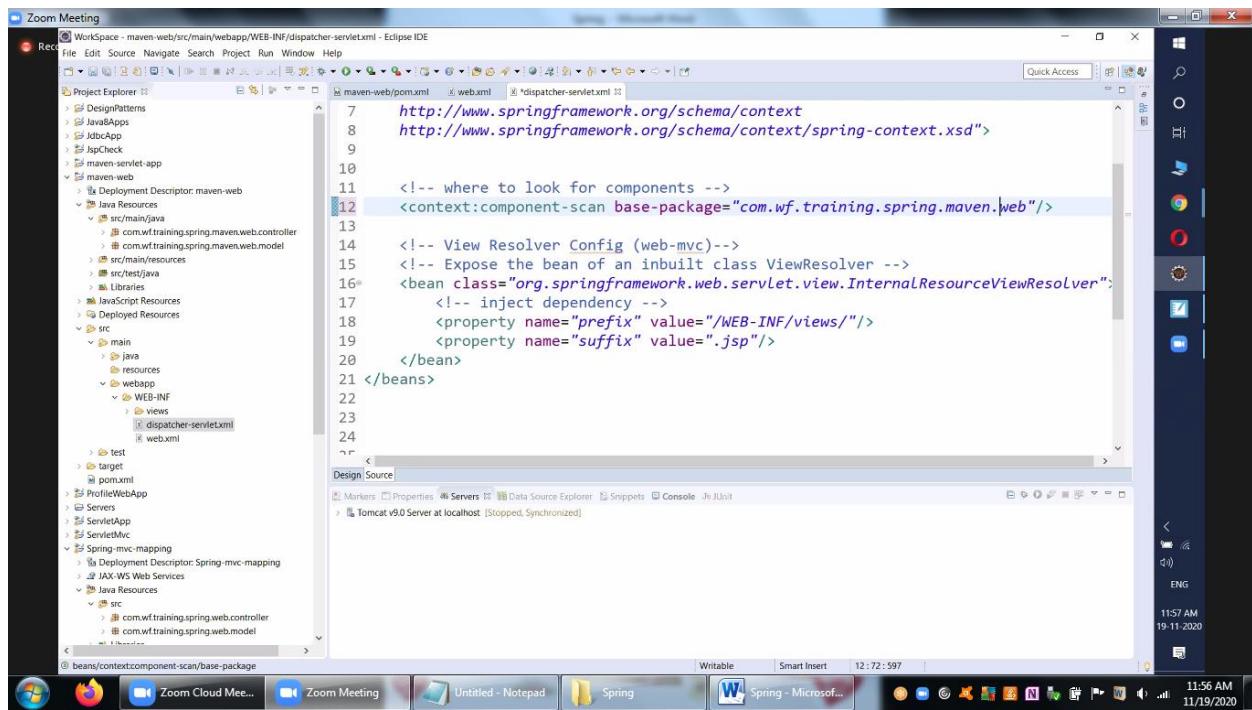
The status bar at the bottom right indicates the date and time as 11:53 AM on 19/11/2020.

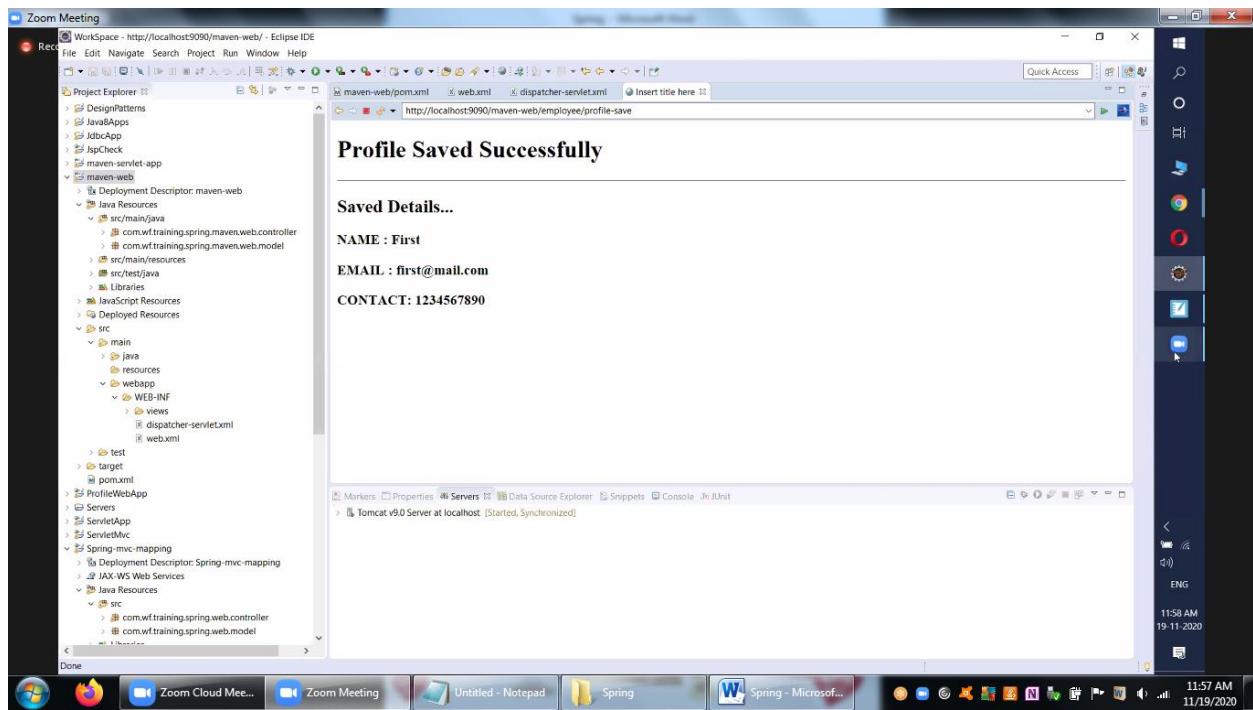
## Copy all the views and packages

The screenshot shows the Eclipse IDE interface. The Project Explorer view on the left lists several projects and their components. The central editor window displays the content of a dispatcher-servlet.xml file. A portion of the XML code is shown:

```
7   http://www.springframework.org/schema/context
8   http://www.springframework.org/schema/context/spring-context.xsd"
9
10
11  <!-- where to look for components -->
12  <context:component-scan base-package="com.wf.training.spring.web"/>
13
14  <!-- View Resolver Config (web-mvc)-->
15  <!-- Expose the bean of an inbuilt class ViewResolver -->
16  <bean class="org.springframework.web.servlet.view.InternalResourceViewResolver">
17    <!-- inject dependency -->
18    <property name="prefix" value="/WEB-INF/views/"/>
19    <property name="suffix" value=".jsp"/>
20  </bean>
21 </beans>
22
23
24
```

The status bar at the bottom right indicates the date and time as 11:56 AM on 19/11/2020.





The screenshot shows a SMART Notebook presentation slide titled "Maven Project". The slide contains the following text and diagrams:

**Maven Project**

1. archetype : web
2. Add the Server Runtime Library
3. convert java 1.5 to 1.8
4. Adding dependencies
  1. spring framework
  2. servlet for DS
  3. jsp+jstl

**Pure Java Config**

- ~ add a maven tool
- web.xml ( servlet-api) ~ Java Class
- dispatcher-servlet.xml (spring) ~ Java class

**SMART Notebook® Limited Mode**

Converting XML to Java

Zoom Meeting

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File Edit Source Navigate Project Run Window Help

Project Explorer

- DesignPatterns
- JavaApps
- JdbcApp
- JspCheck
- maven-servlet-app
- maven-web
- maven-web-java-config
  - Deployment Descriptor: maven-web
  - Java Resources
  - JavaScript Resources
  - Deployed Resources
- src
- target
- pom.xml

maven-web Java - pom.xml

```
1<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.xsd">
2<modelVersion>4.0.0</modelVersion>
3<groupId>com.wf.training.spring</groupId>
4<artifactId>maven-web-java-config</artifactId>
5<packaging>war</packaging>
6<version>0.0.1-SNAPSHOT</version>
7<name>maven-web Maven Webapp</name>
8<url>http://maven.apache.org</url>
9
10<properties>
11<!-- maven.compiler.source>1.8</maven.compiler.source>
12<maven.compiler.target>1.8</maven.compiler.target>
13</properties>
14
15<dependencies>
16
17<!-- https://mvnrepository.com/artifact/org.springframework/spring-webmvc -->
18<dependency>
19<groupId>org.springframework</groupId>
20<artifactId>spring-webmvc</artifactId>
21<version>5.3.1</version>
22</dependency>
23
24<!-- https://mvnrepository.com/artifact/javax.servlet/javax.servlet-api -->
25<dependency>
26<groupId>javax.servlet</groupId>
27<artifactId>javax.servlet-api</artifactId>
28<version>5.0.1</version>
29</dependency>
30
31<dependency>
32<groupId>javax.servlet.jsp</groupId>
33<artifactId>javax.servlet.jsp-api</artifactId>
34<version>2.3.3</version>
35<scope>provided</scope>
36</dependency>
37
38<!-- https://mvnrepository.com/artifact/jstl/jstl -->
39<dependency>
40<groupId>jstl</groupId>
41<artifactId>jstl</artifactId>
42<version>1.2</version>
43</dependency>
44
45<dependency>
46<groupId>junit</groupId>
47<artifactId>junit</artifactId>
48<version>3.8.1</version>
49<scope>test</scope>
50</dependency>
51
52<dependencies>
53<dependency>
54<groupId>junit</groupId>
55<artifactId>junit</artifactId>
56<version>3.8.1</version>
57<scope>test</scope>
58</dependency>
59
60<build>
61<finalName>maven-web-java-config</finalName>
62</build>
63</project>
```

Participants Chat Share Screen Record

Unmute Start Video Zoom Cloud Meet... Zoom Meeting Untitled - Notepad Spring W Spring - Microsoft Word 12:03 PM 11/19/2020

Zoom Meeting

You are viewing Navin Gupta's screen

File Edit Source Navigate Project Run Window Help

Project Explorer

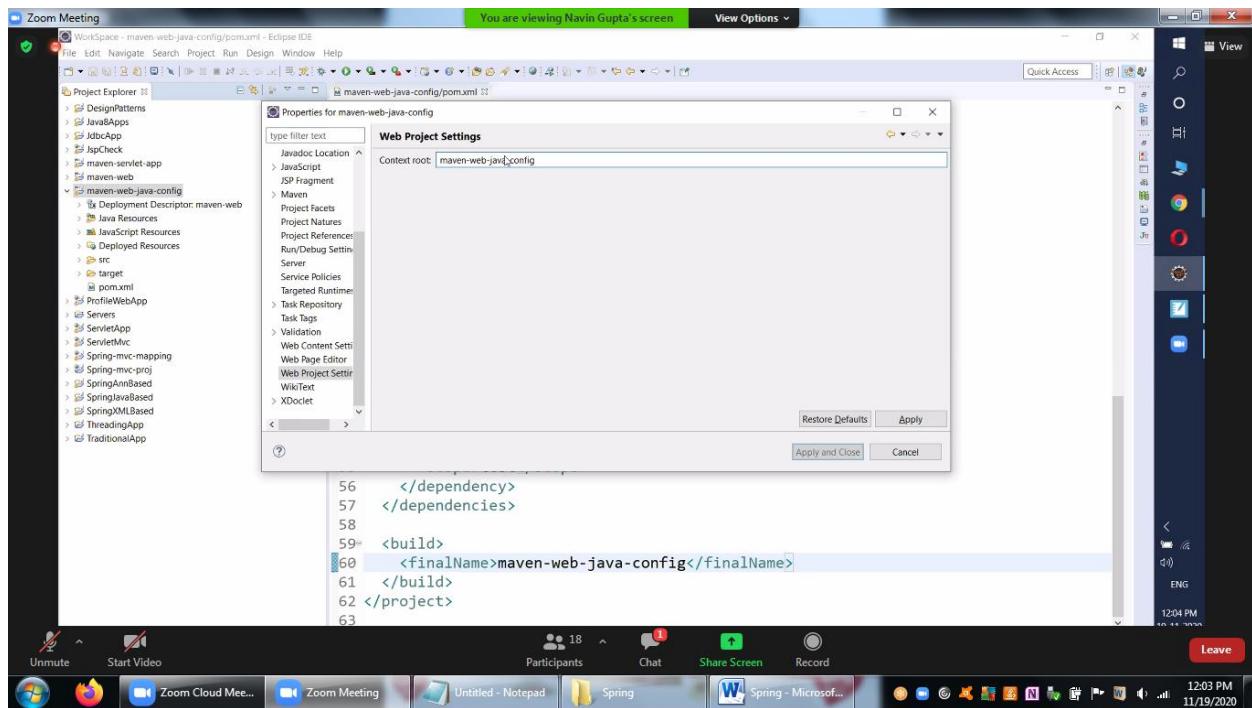
- DesignPatterns
- JavaApps
- JdbcApp
- JspCheck
- maven-servlet-app
- maven-web
- maven-web-java-config
  - Deployment Descriptor: maven-web
  - Java Resources
  - JavaScript Resources
  - Deployed Resources
- src
- target
- pom.xml

maven-web Java - pom.xml

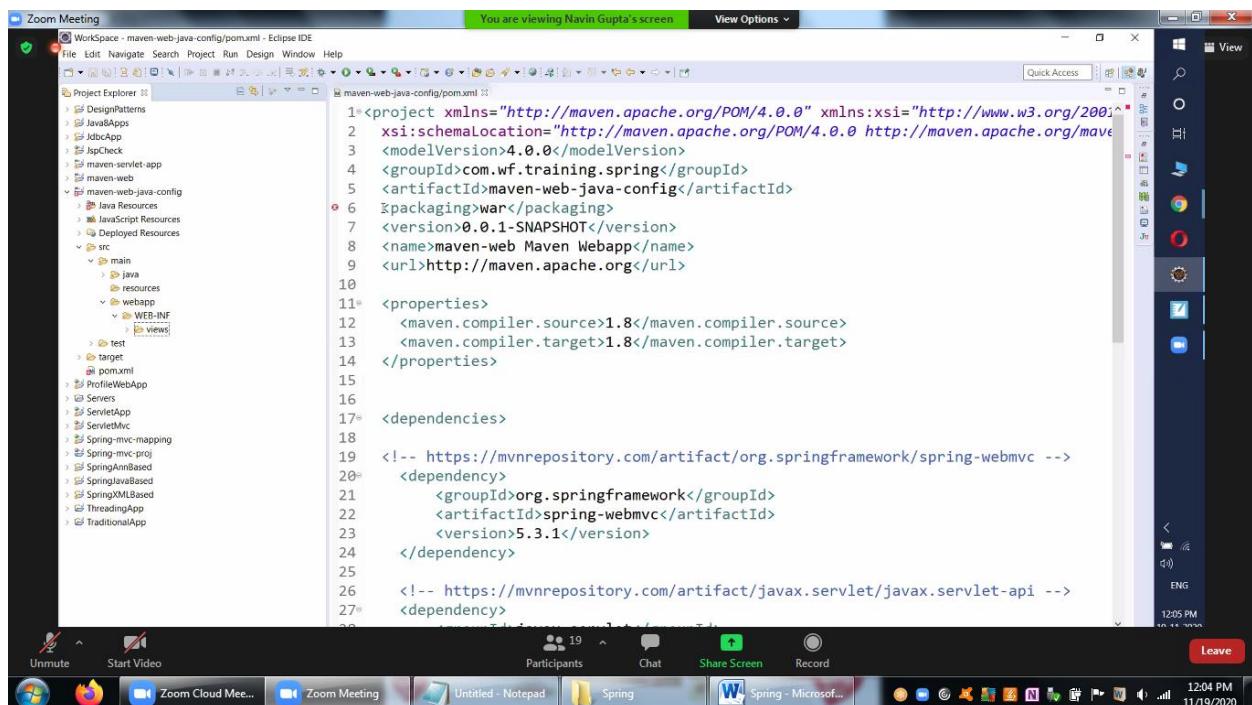
```
1<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4.xsd">
2<modelVersion>4.0.0</modelVersion>
3<groupId>com.wf.training.spring</groupId>
4<artifactId>maven-web-java-config</artifactId>
5<packaging>war</packaging>
6<version>0.0.1-SNAPSHOT</version>
7<name>maven-web Maven Webapp</name>
8<url>http://maven.apache.org</url>
9
10<properties>
11<!-- maven.compiler.source>1.8</maven.compiler.source>
12<maven.compiler.target>1.8</maven.compiler.target>
13</properties>
14
15<dependencies>
16
17<!-- https://mvnrepository.com/artifact/org.springframework/spring-webmvc -->
18<dependency>
19<groupId>org.springframework</groupId>
20<artifactId>spring-webmvc</artifactId>
21<version>5.3.1</version>
22</dependency>
23
24<!-- https://mvnrepository.com/artifact/javax.servlet/javax.servlet-api -->
25<dependency>
26<groupId>javax.servlet</groupId>
27<artifactId>javax.servlet-api</artifactId>
28<version>5.0.1</version>
29</dependency>
30
31<dependency>
32<groupId>javax.servlet.jsp</groupId>
33<artifactId>javax.servlet.jsp-api</artifactId>
34<version>2.3.3</version>
35<scope>provided</scope>
36</dependency>
37
38<!-- https://mvnrepository.com/artifact/jstl/jstl -->
39<dependency>
40<groupId>jstl</groupId>
41<artifactId>jstl</artifactId>
42<version>1.2</version>
43</dependency>
44
45<dependency>
46<groupId>junit</groupId>
47<artifactId>junit</artifactId>
48<version>3.8.1</version>
49<scope>test</scope>
50</dependency>
51
52<dependencies>
53<dependency>
54<groupId>junit</groupId>
55<artifactId>junit</artifactId>
56<version>3.8.1</version>
57<scope>test</scope>
58</dependency>
59
60<build>
61<finalName>maven-web-java-config</finalName>
62</build>
63</project>
```

Participants Chat Share Screen Record

Unmute Start Video Zoom Cloud Meet... Zoom Meeting Untitled - Notepad Spring W Spring - Microsoft Word 12:03 PM 11/19/2020



## Delete the xml files



## Error in POM

Zoom Meeting

WorkSpace - maven-web-java-config/pom.xml - Eclipse IDE

File Edit Source Navigate Search Project Run Window Help

Project Explorer

- DesignPatterns
- JavaBApps
- JdbcApp
- JspCheck
- maven-servlet-app
- maven-web
- maven-web-java-config
  - Java Resources
  - JavaScript Resources
  - Deployed Resources
  - src
    - main
      - java
      - resources
    - test
  - target
  - pom.xml
- ProfileWebApp
- Servers
- ServletApp
- ServletMvc
- Spring-mvc-mapping
- Spring-mvc-pro
- SpringAutowebed
- SpringJavabased
- SpringMLbased
- SpringThreadingApp
- TraditionalApp

```
1<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">
2<modelVersion>4.0.0</modelVersion>
3<groupId>com.wf.training.spring</groupId>
4<artifactId>maven-web-java-config</artifactId>
5<version>0.0.1-SNAPSHOT</version>
6<name>maven-web Maven Webapp</name>
7<url>http://maven.apache.org</url>
8<properties>
9<maven.compiler.source>1.8</maven.compiler.source>
10<maven.compiler.target>1.8</maven.compiler.target>
11</properties>
12<dependencies>
13<dependency>
14<groupId>org.springframework</groupId>
15<artifactId>spring-webmvc</artifactId>
16<version>5.3.1</version>
17</dependency>
18<!-- https://mvnrepository.com/artifact/org.springframework/spring-webmvc -->
19<dependency>
20<groupId>org.springframework</groupId>
21<artifactId>spring-webmvc</artifactId>
22<version>5.3.1</version>
23</dependency>
24<!-- https://mvnrepository.com/artifact/javax.servlet/javax.servlet-api -->
25<dependency>
26<groupId>javax.servlet</groupId>
27<artifactId>javax.servlet-api</artifactId>
28<version>5.0.1</version>
29</dependency>
30<dependency>
31<groupId>org.springframework</groupId>
32<artifactId>spring-webmvc</artifactId>
33<version>5.3.1</version>
34</dependency>
35<dependency>
36<groupId>org.springframework</groupId>
37<artifactId>spring-expression</artifactId>
38<version>5.3.1</version>
39</dependency>
40<dependency>
41<groupId>org.springframework</groupId>
42<artifactId>spring-beans</artifactId>
43<version>5.3.1</version>
44</dependency>
45<dependency>
46<groupId>org.springframework</groupId>
47<artifactId>spring-core</artifactId>
48<version>5.3.1</version>
49</dependency>
50<dependency>
51<groupId>org.springframework</groupId>
52<artifactId>spring-context</artifactId>
53<version>5.3.1</version>
54</dependency>
55<dependency>
56<groupId>org.springframework</groupId>
57<artifactId>spring-aop</artifactId>
58<version>5.3.1</version>
59</dependency>
60<dependency>
61<groupId>org.springframework</groupId>
62<artifactId>spring-web</artifactId>
63<version>5.3.1</version>
64</dependency>
65<dependency>
66<groupId>org.springframework</groupId>
67<artifactId>spring-jdbc</artifactId>
68<version>5.3.1</version>
69</dependency>
70<dependency>
71<groupId>org.springframework</groupId>
72<artifactId>spring-tx</artifactId>
73<version>5.3.1</version>
74</dependency>
75<dependency>
76<groupId>org.springframework</groupId>
77<artifactId>spring-test</artifactId>
78<version>5.3.1</version>
79</dependency>
80<dependency>
81<groupId>org.springframework</groupId>
82<artifactId>spring-instrument</artifactId>
83<version>5.3.1</version>
84</dependency>
85<dependency>
86<groupId>org.springframework</groupId>
87<artifactId>spring-instrument-tomcat</artifactId>
88<version>5.3.1</version>
89</dependency>
90<dependency>
91<groupId>org.springframework</groupId>
92<artifactId>spring-mvc/>
```

Add maven plug-in to resolve this issue

Zoom Meeting

Phase2-6 \* - SMART Notebook

File Edit View Insert Format Tools Add-ons Account Help

Maven Project

- archetype : web
- Add the Server Runtime Library
- convert java 1.5 to 1.8
- Adding dependencies
  - spring framework
  - servlet for DS
  - jsp+jstl

Pure Java Config

- add a maven plugin  
web.xml ( servlet-api )  
~ Java Class
- dispatcher-servlet.xml ( spring ) ~ Java class

SMART Notebook®  
Limited Mode

12:04 PM 11/19/2020

The screenshot shows a Zoom meeting interface with a browser window open to the Maven Repository. The URL is [mvnrepository.com/artifact/org.apache.maven.plugins/maven-war-plugin/3.3.1](https://mvnrepository.com/artifact/org.apache.maven.plugins/maven-war-plugin/3.3.1). The page title is "Apache Maven WAR Plugin > 3.3.1". It includes a graph of indexed artifacts over time, a brief description, and a detailed dependency section. A code block for the dependency is highlighted and has a "Copied to clipboard!" message.

Add as plug-in and remove the dependency flag

No error is shown for WAR file

The screenshot shows the Eclipse IDE interface with a project named "WorkSpace - maven-web-java-config/pom.xml - Eclipse IDE". The Project Explorer view shows various Java and web-related projects. The main focus is on the content editor displaying the pom.xml file. The XML code includes a pluginManagement section with a plugin for the maven-war-plugin.

```

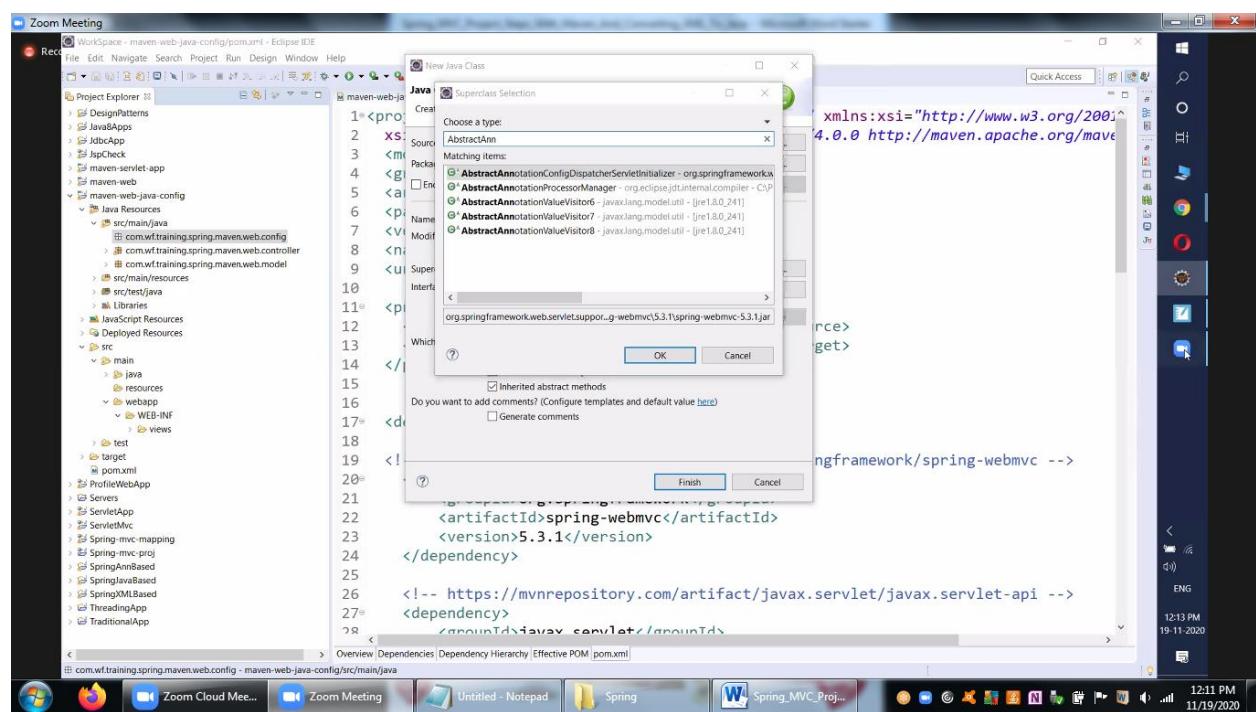
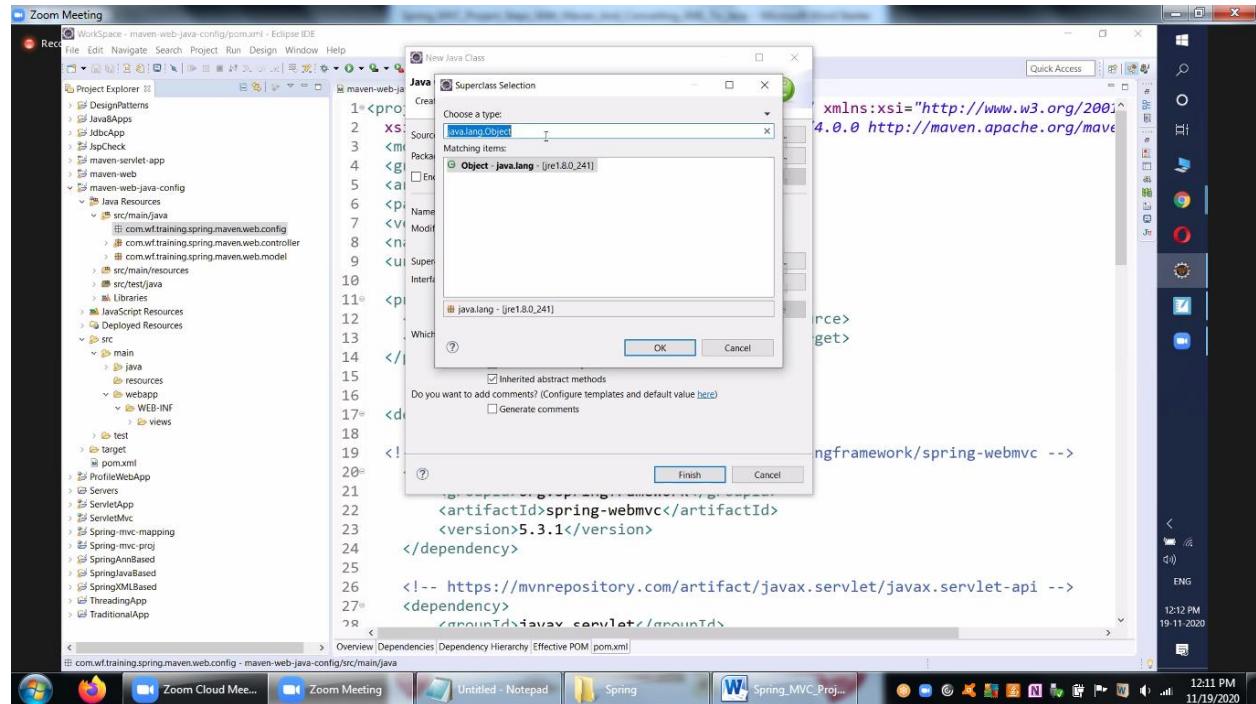
<dependency>
    <groupId>org.apache.maven.plugins</groupId>
    <artifactId>maven-war-plugin</artifactId>
    <version>3.3.1</version>
</dependency>

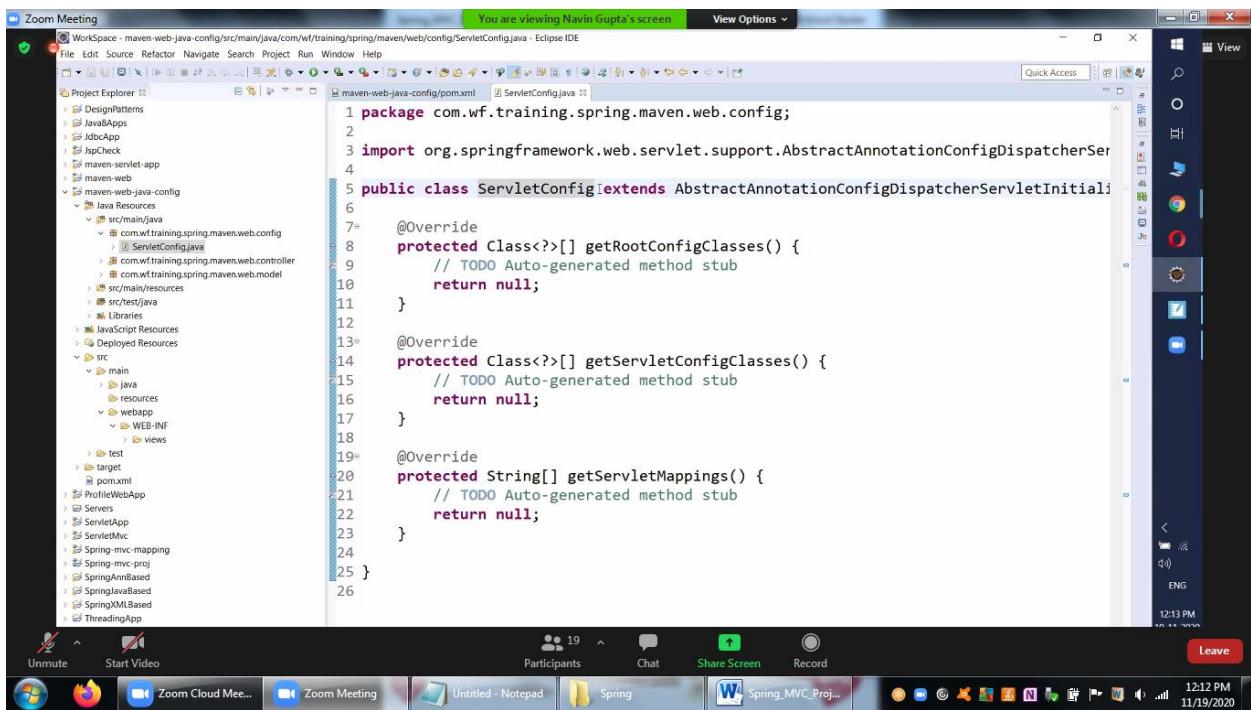
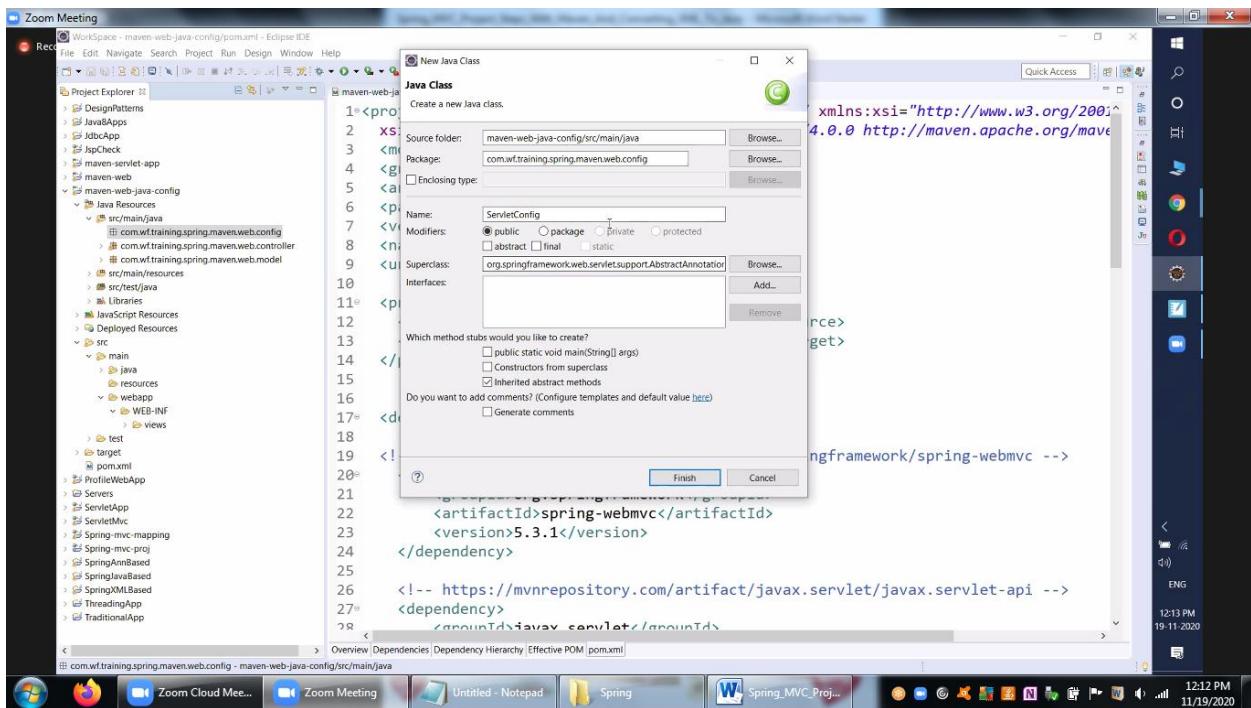
```

## Add java classes for configuration

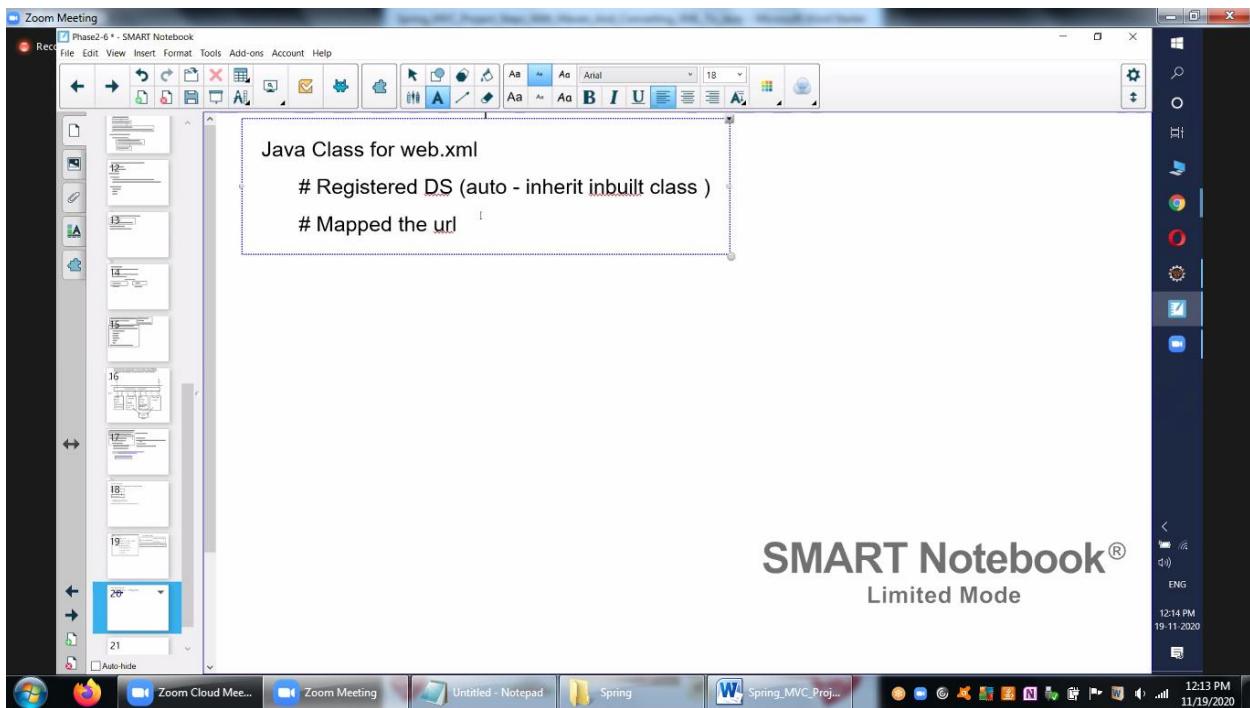
One for Web.Xml

One for Dispatcher.xml

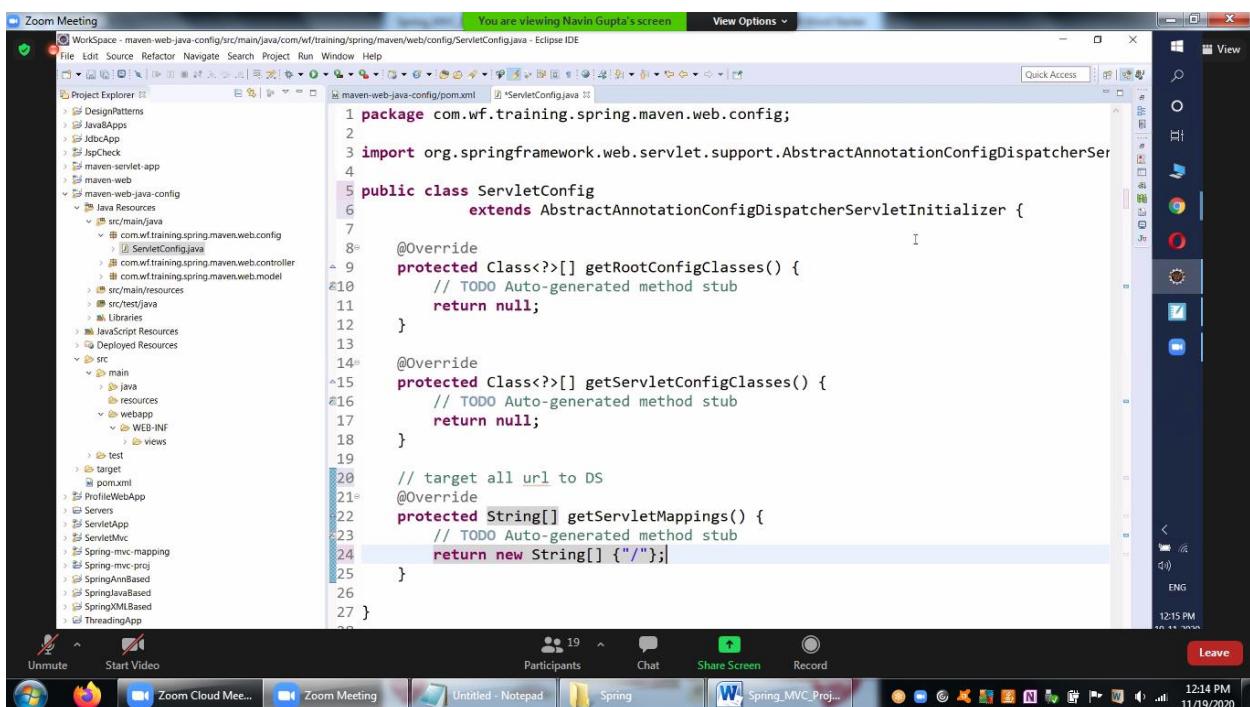




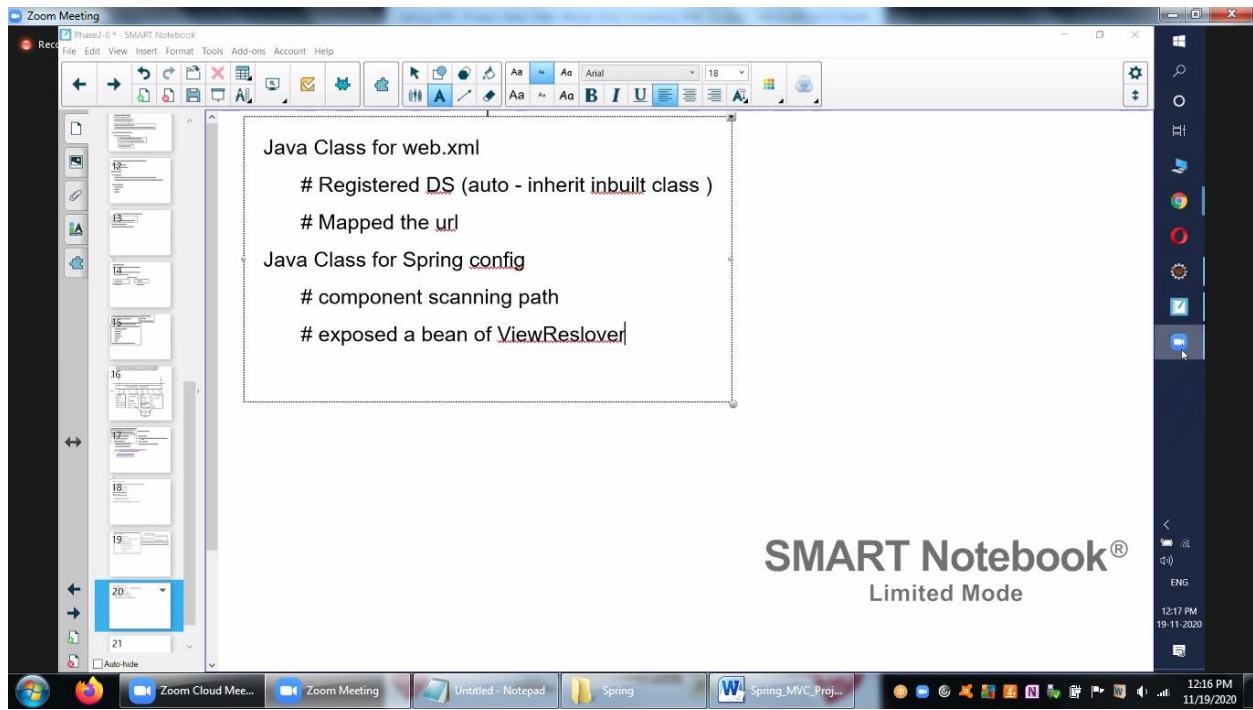
Inherit the above abstract class



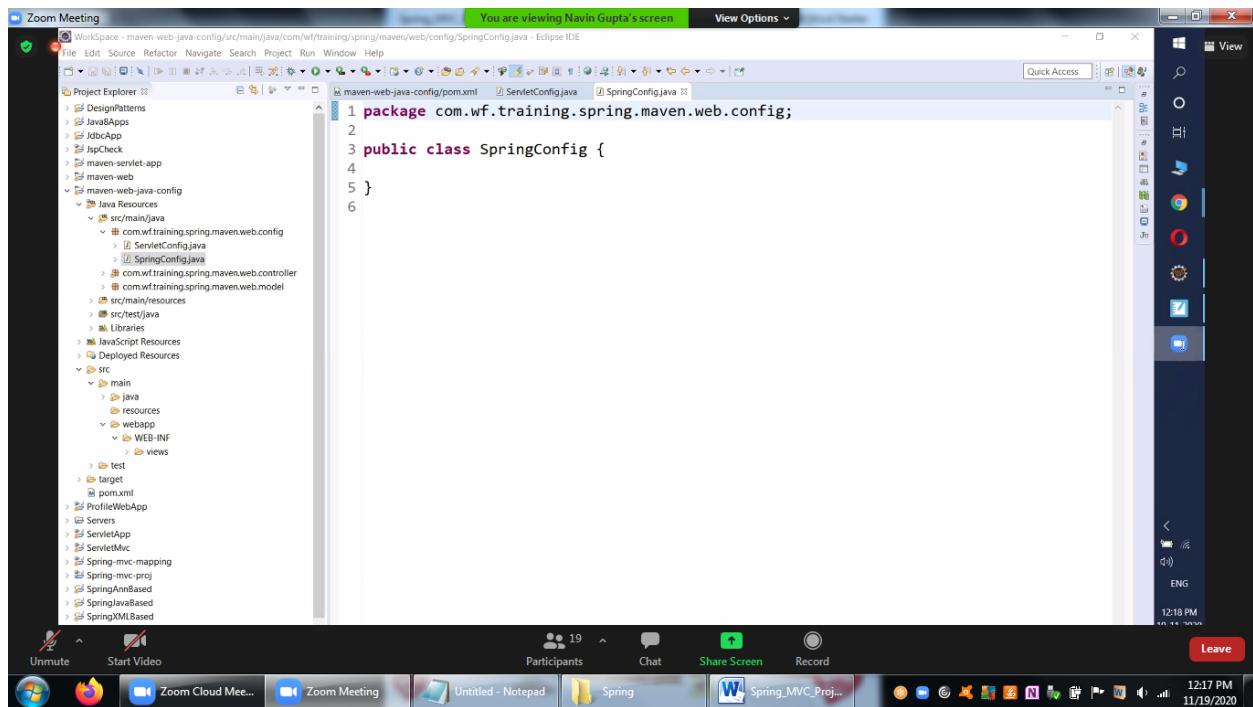
Returns the array of URL's, Web.xml configuration is completed



Now going to the Spring XML configuration to Java



Regular class no needed of inheriting abstract classes



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WorkSpace - maven-web-java-config/src/main/java/com/wf/training/spring/maven/web/config/SpringConfig.java - Eclipse IDE

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- SpringAnnotated
- SpringJavaBased
- SpringXMLBased
- ThreadingApp
- ThreadLocalApp

1 package com.wf.training.spring.maven.web.config;  
2  
3 import org.springframework.context.annotation.ComponentScan;  
4 import org.springframework.context.annotation.Configuration;  
5  
6 @Configuration  
7 @ComponentScan("com.wf.training.spring.maven.web")  
8 public class SpringConfig {  
9  
10 }  
11

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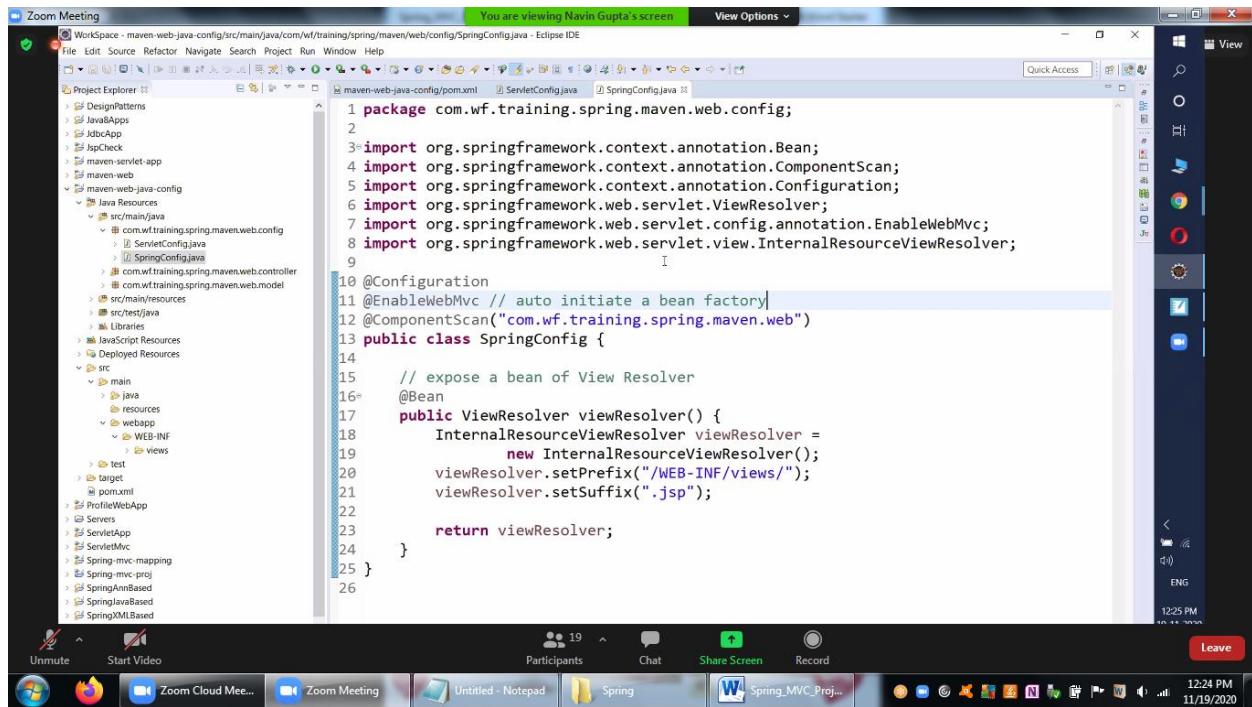
- DesignPatterns
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      - com.wf.training.spring.maven.web.controller
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- Spring-mvc-mapping
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- SpringAnnotated
- SpringJavaBased
- SpringXMLBased
- ThreadingApp
- ThreadLocalApp

1 package com.wf.training.spring.maven.web.config;  
2  
3 import org.springframework.context.annotation.Bean;  
4 import org.springframework.context.annotation.ComponentScan;  
5 import org.springframework.context.annotation.Configuration;  
6 import org.springframework.web.servlet.ViewResolver;  
7 import org.springframework.web.servlet.view.InternalResourceViewResolver;  
8  
9 @Configuration  
10 @ComponentScan("com.wf.training.spring.maven.web")  
11 public class SpringConfig {  
12  
13 // expose a bean of View Resolver  
14 @Bean  
15 public ViewResolver viewResolver() {  
16 InternalResourceViewResolver viewResolver =  
17 new InternalResourceViewResolver();  
18 viewResolver.setPrefix("/WEB-INF/views/");  
19 viewResolver.setSuffix(".jsp");  
20  
21 return viewResolver;  
22 }  
23 }  
24

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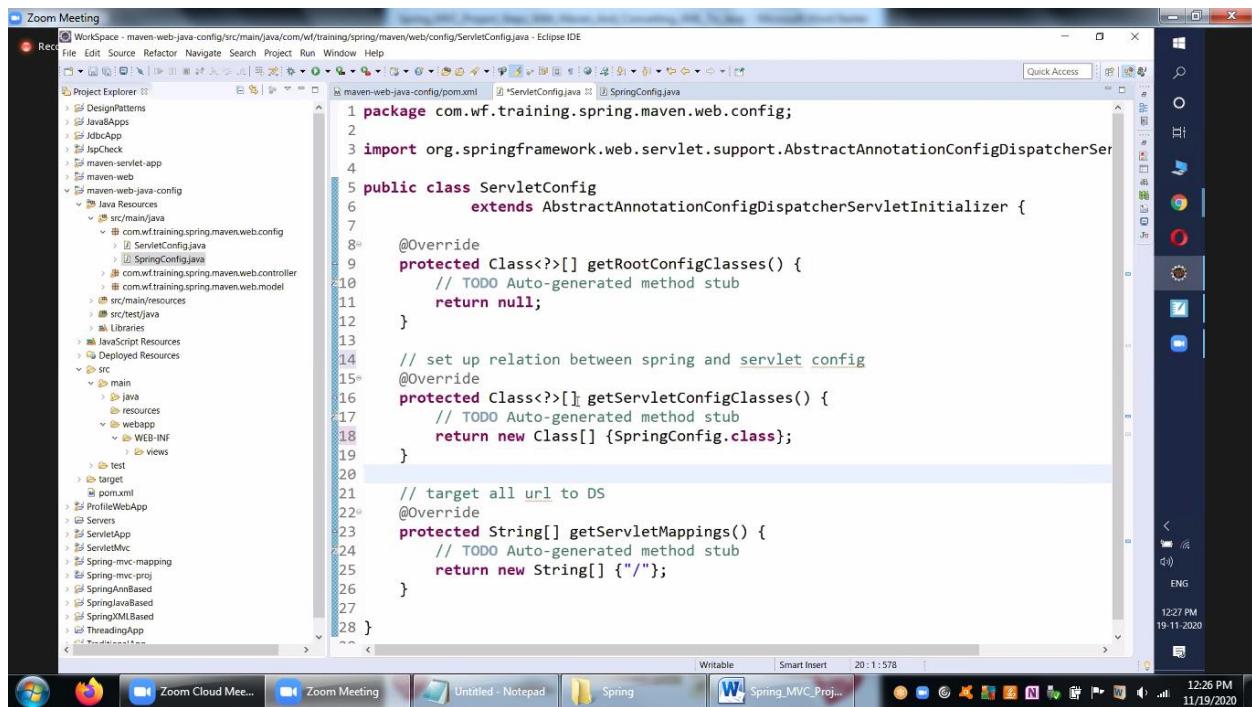
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## Introduce one more annotation EnableWebMvc to initiate the bean factory



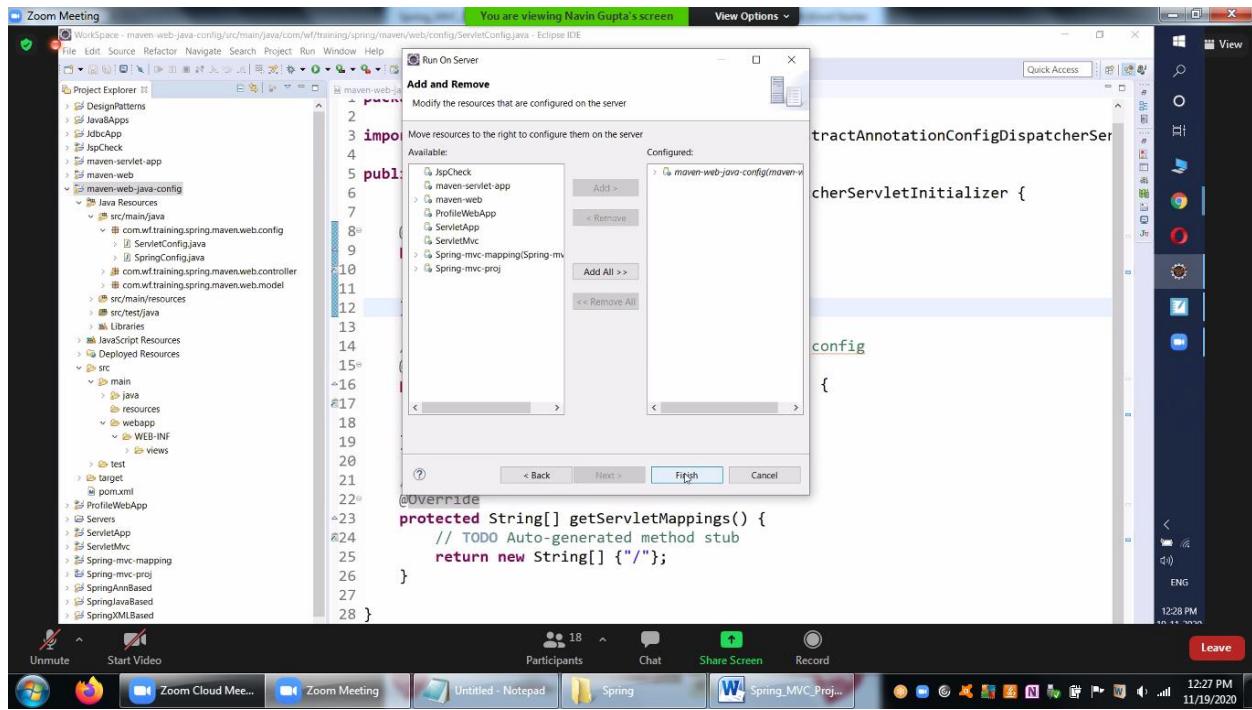
```
1 package com.wf.training.spring.maven.web.config;
2
3 import org.springframework.context.annotation.Bean;
4 import org.springframework.context.annotation.ComponentScan;
5 import org.springframework.context.annotation.Configuration;
6 import org.springframework.web.servlet.ViewResolver;
7 import org.springframework.web.servlet.config.annotation.EnableWebMvc;
8 import org.springframework.web.servlet.view.InternalResourceViewResolver;
9
10 @Configuration
11 @EnableWebMvc // auto initiate a bean factory
12 @ComponentScan("com.wf.training.spring.maven.web")
13 public class SpringConfig {
14
15     // expose a bean of View Resolver
16     @Bean
17     public ViewResolver viewResolver() {
18         InternalResourceViewResolver viewResolver =
19             new InternalResourceViewResolver();
20         viewResolver.setPrefix("/WEB-INF/views/");
21         viewResolver.setSuffix(".jsp");
22
23         return viewResolver;
24     }
25 }
26
```

## Set relation between spring and servlet config



```
1 package com.wf.training.spring.maven.web.config;
2
3 import org.springframework.web.servlet.support.AbstractAnnotationConfigDispatcherServletInitializer;
4
5 public class ServletConfig
6     extends AbstractAnnotationConfigDispatcherServletInitializer {
7
8     @Override
9     protected Class<?>[] getRootConfigClasses() {
10         // TODO Auto-generated method stub
11         return null;
12     }
13
14     // set up relation between spring and servlet config
15     @Override
16     protected Class<?>[] getServletConfigClasses() {
17         // TODO Auto-generated method stub
18         return new Class[] {SpringConfig.class};
19     }
20
21     // target all url to DS
22     @Override
23     protected String[] getServletMappings() {
24         // TODO Auto-generated method stub
25         return new String[] {"/"};
26     }
27
28 }
```

## Run the project



Its success now..

