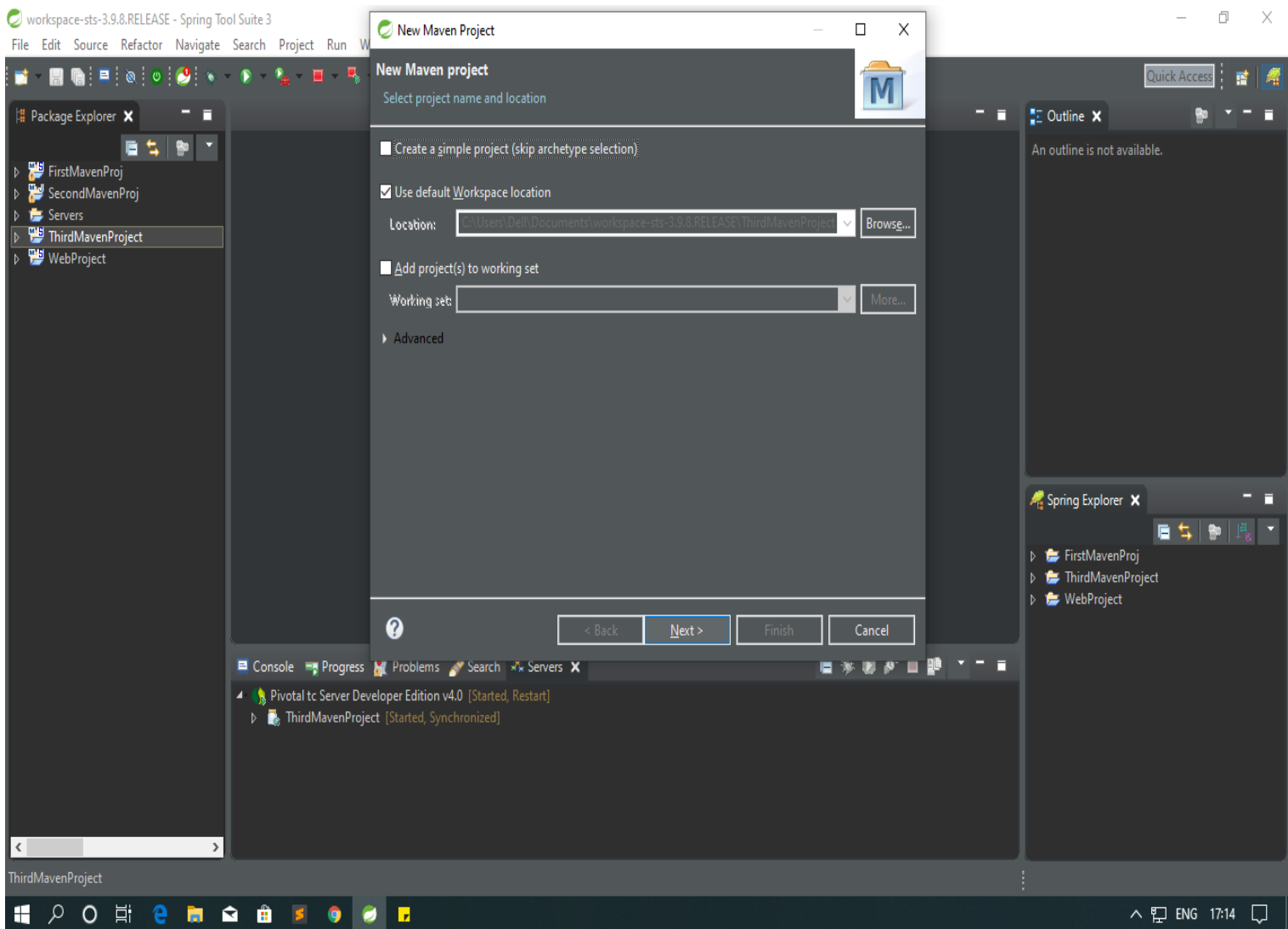
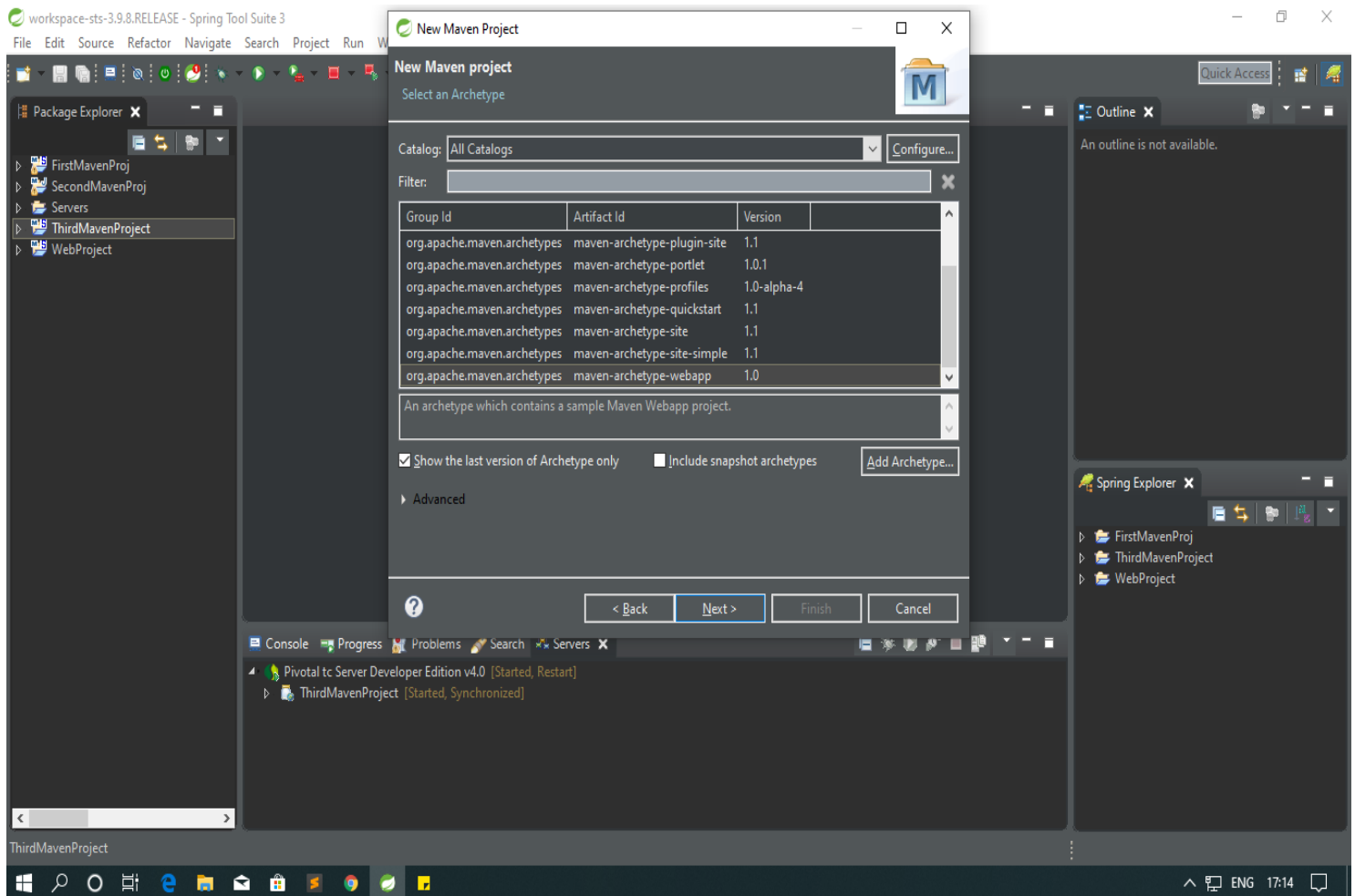


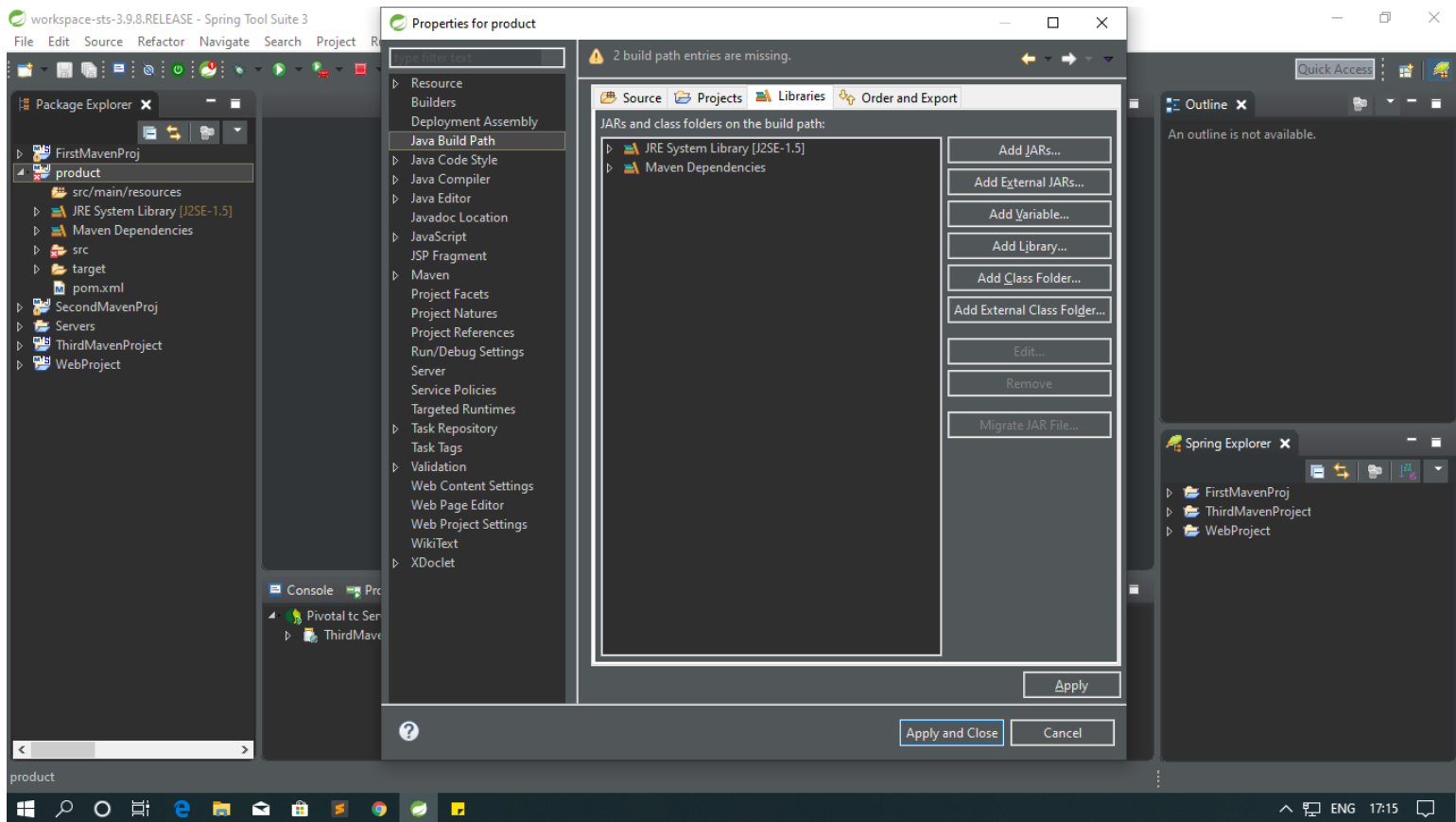
Step 1:



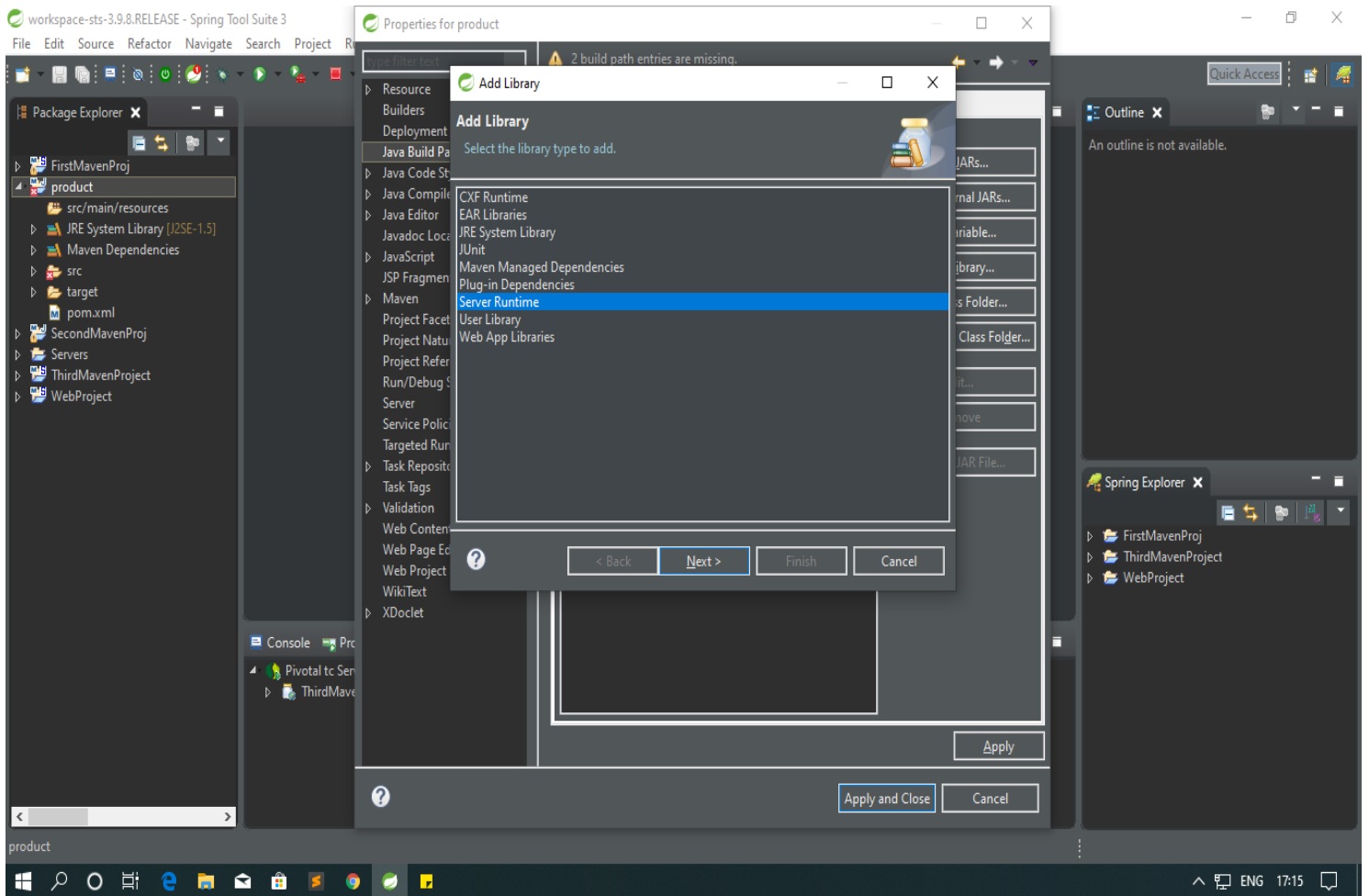
Step 2:



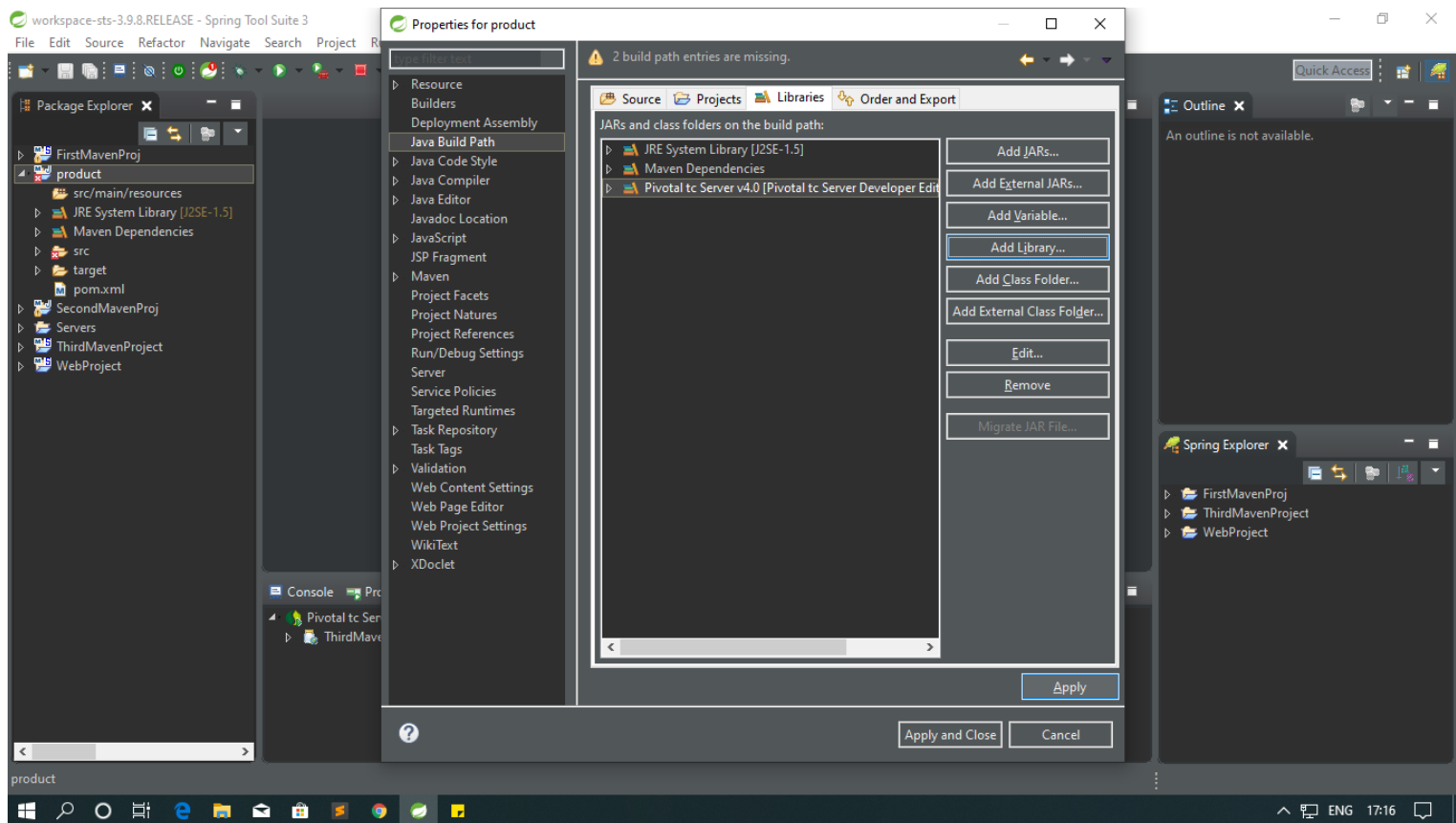
Step 3:



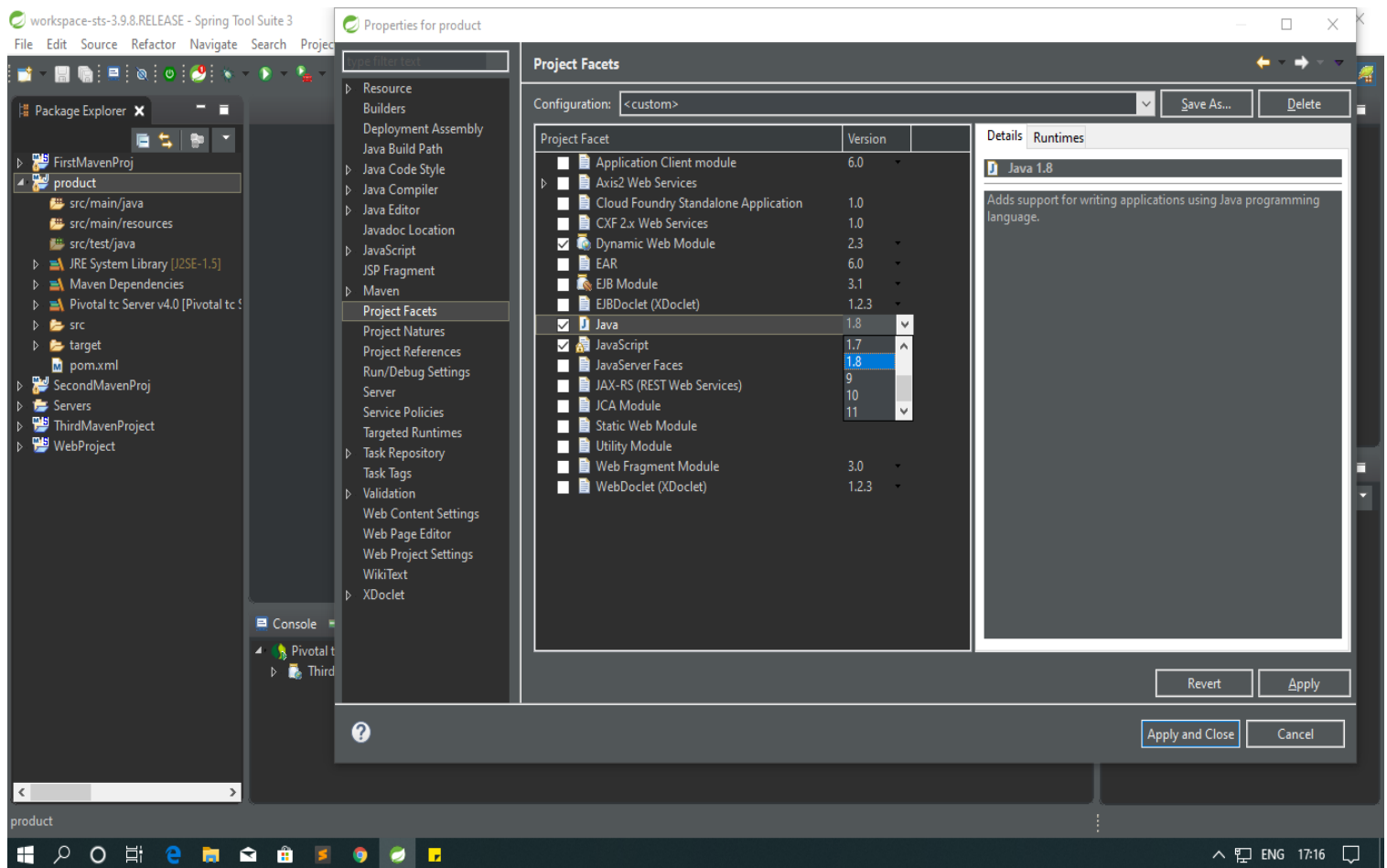
Step 4:



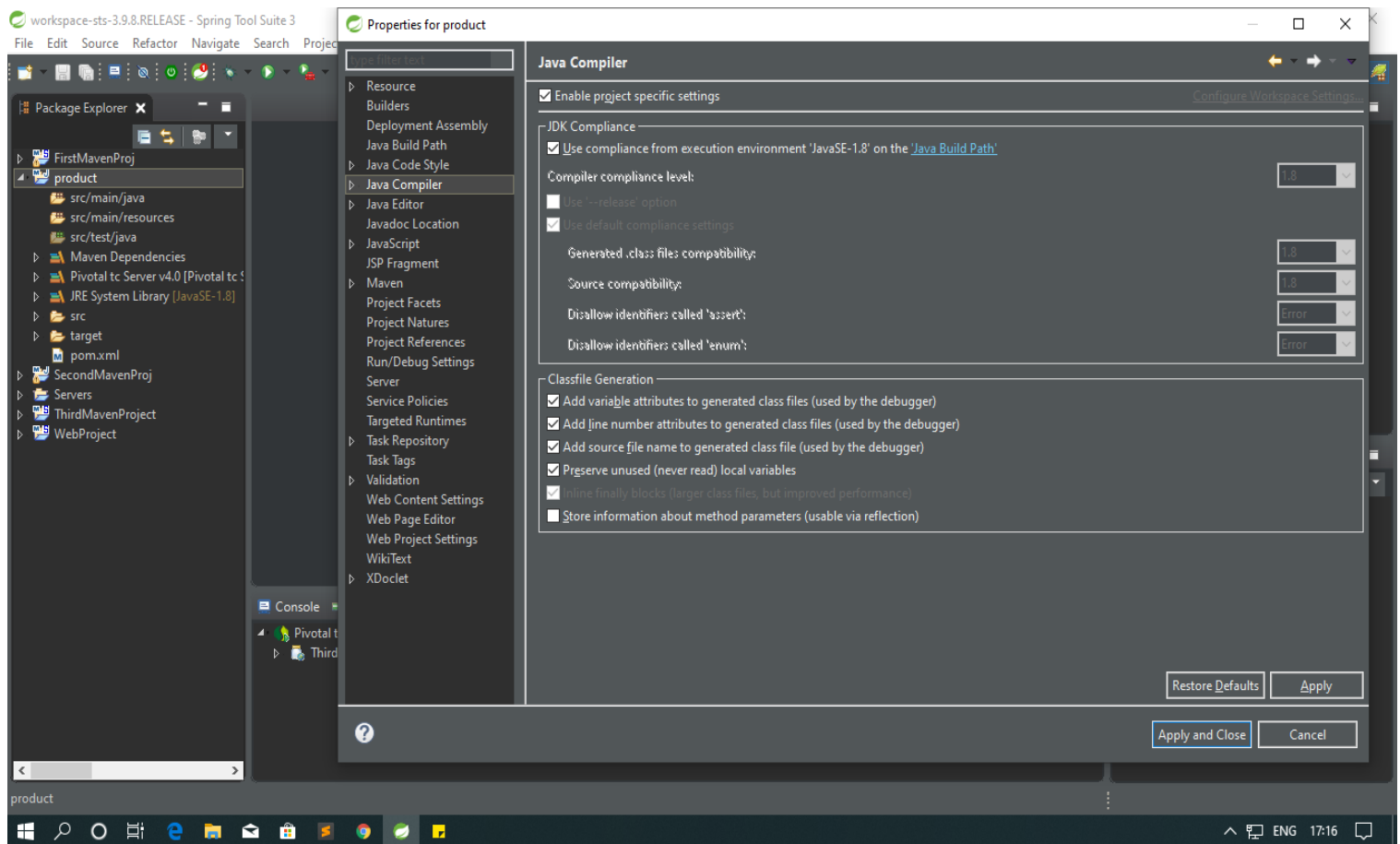
Step 5:



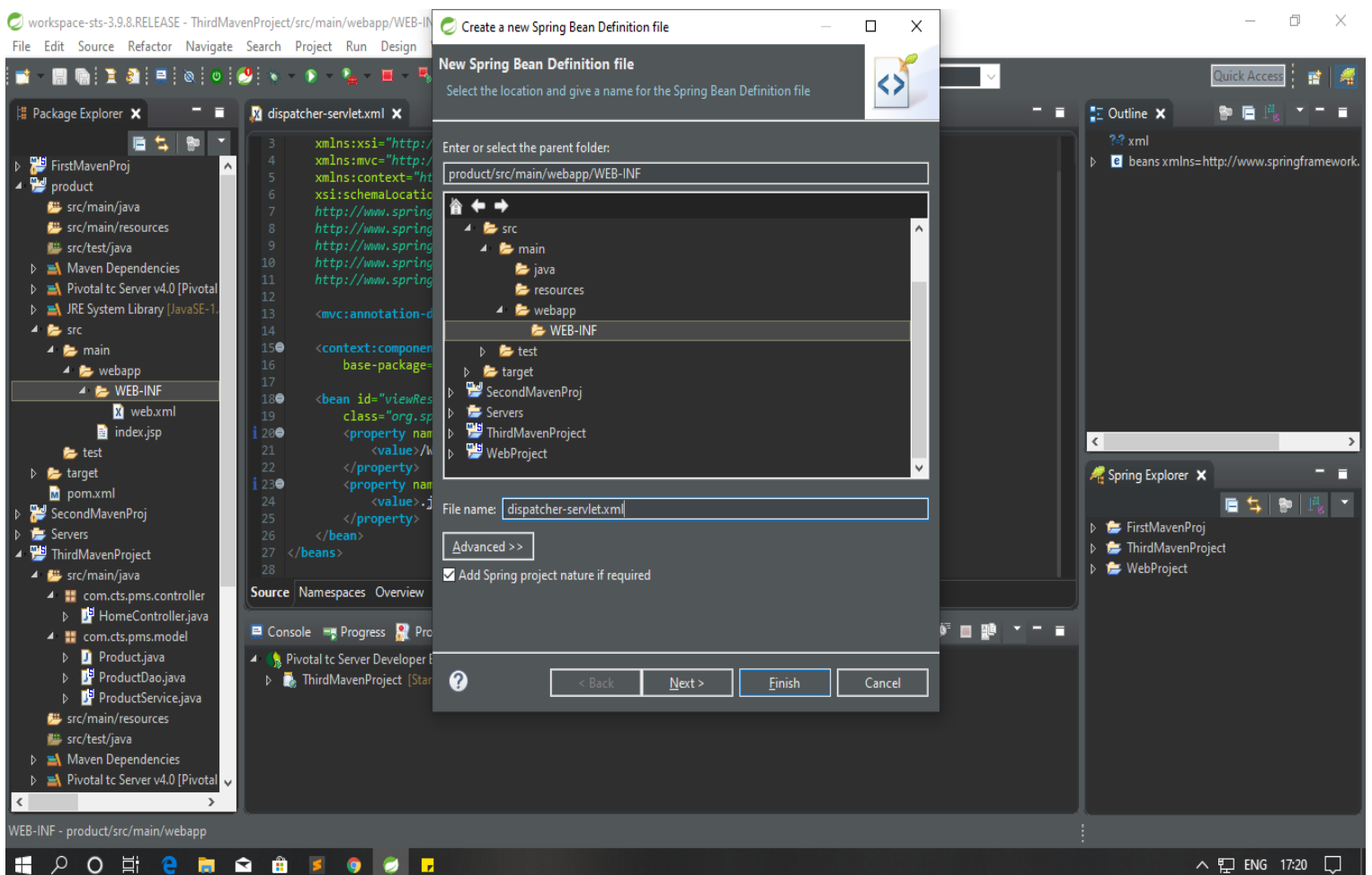
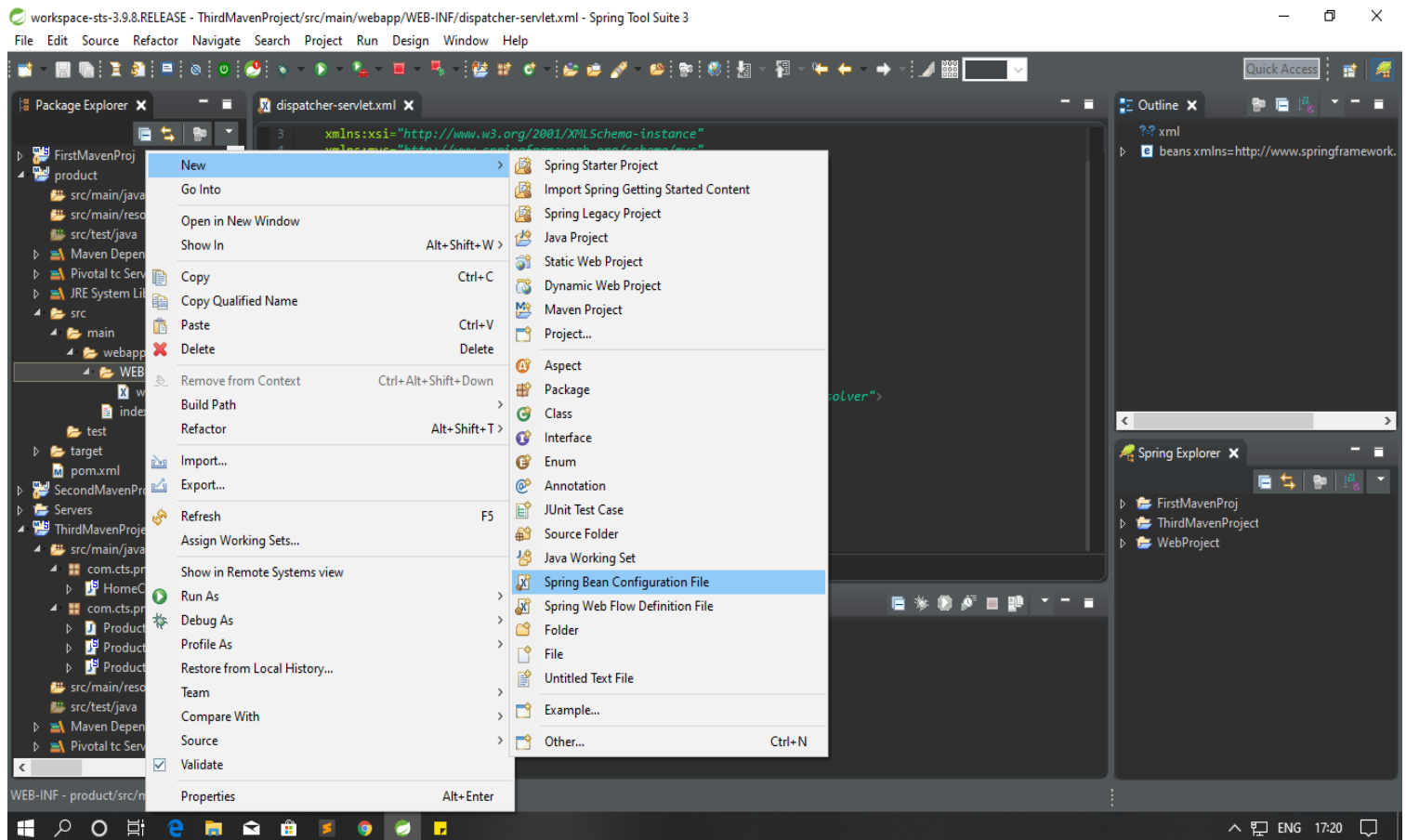
Step 6:



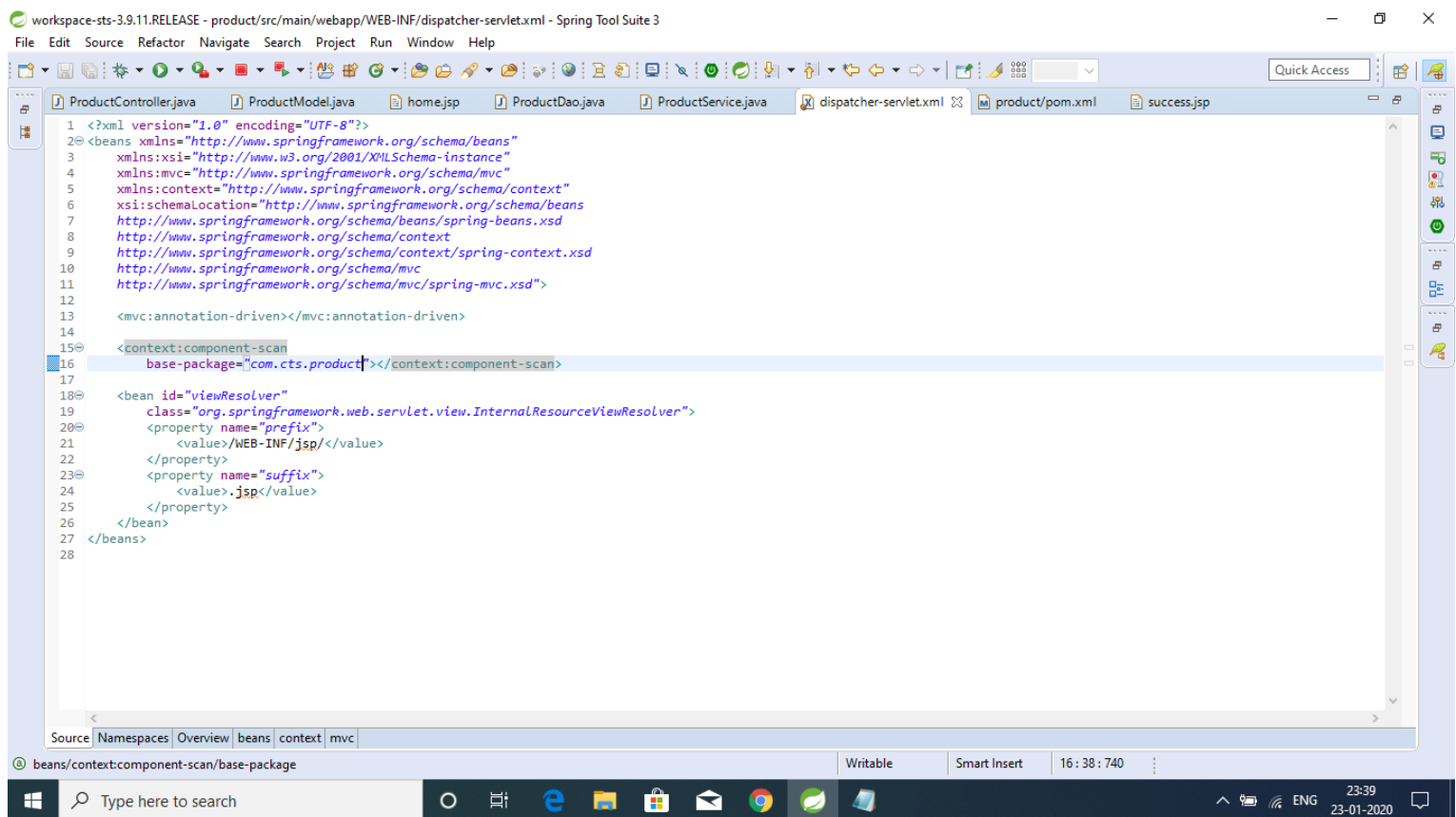
Step 7:



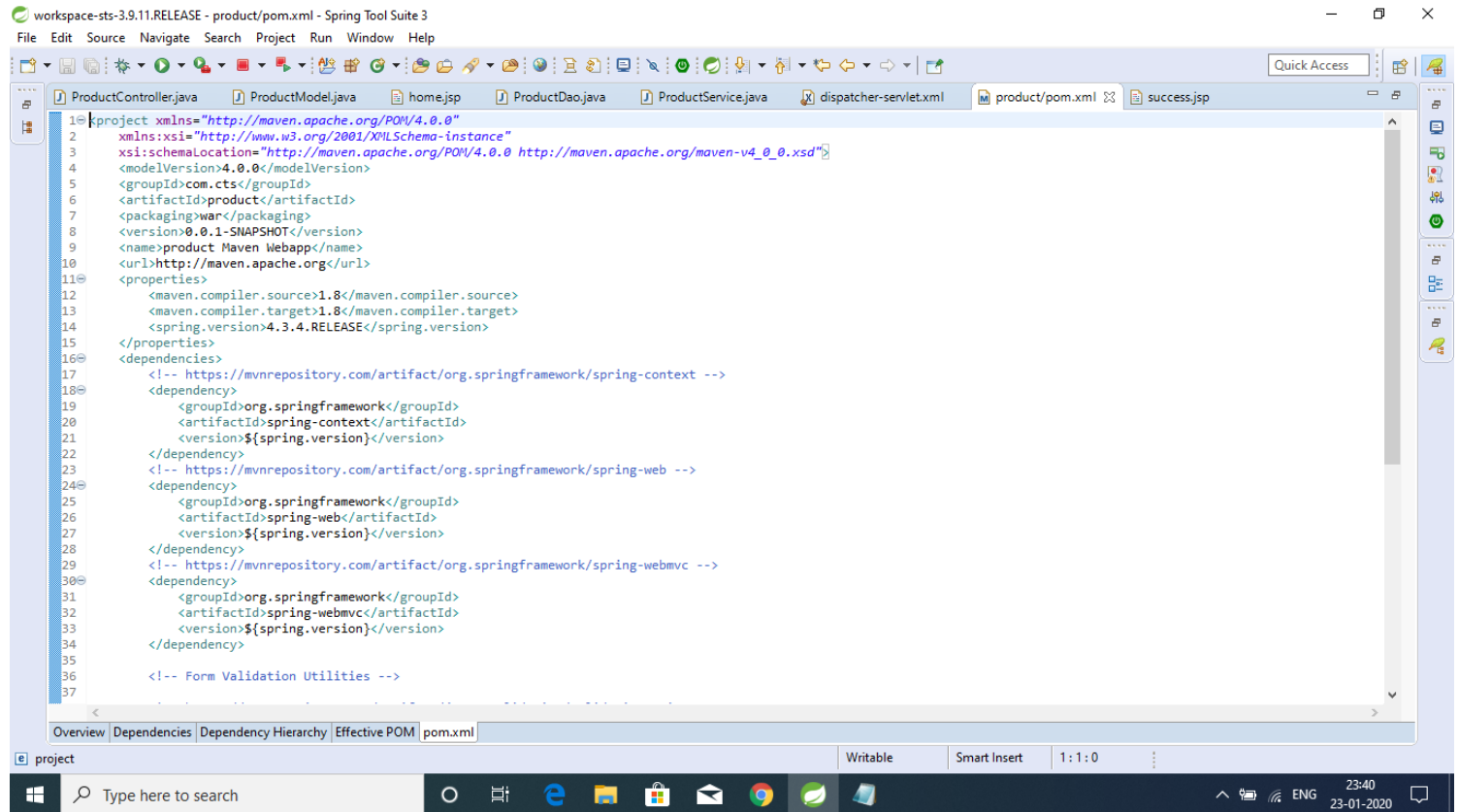
Step 8:



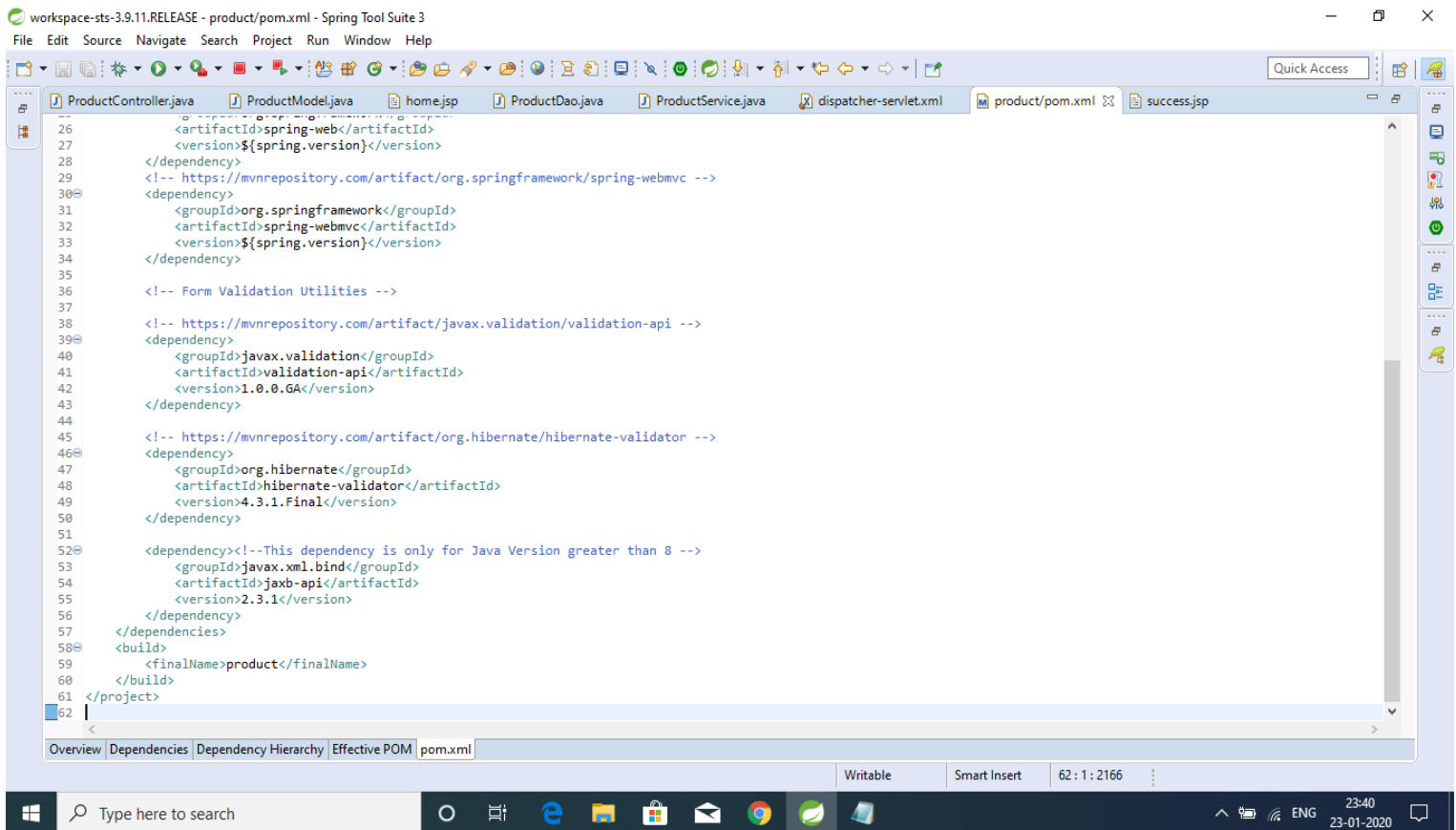
Step 9:



Step 10:

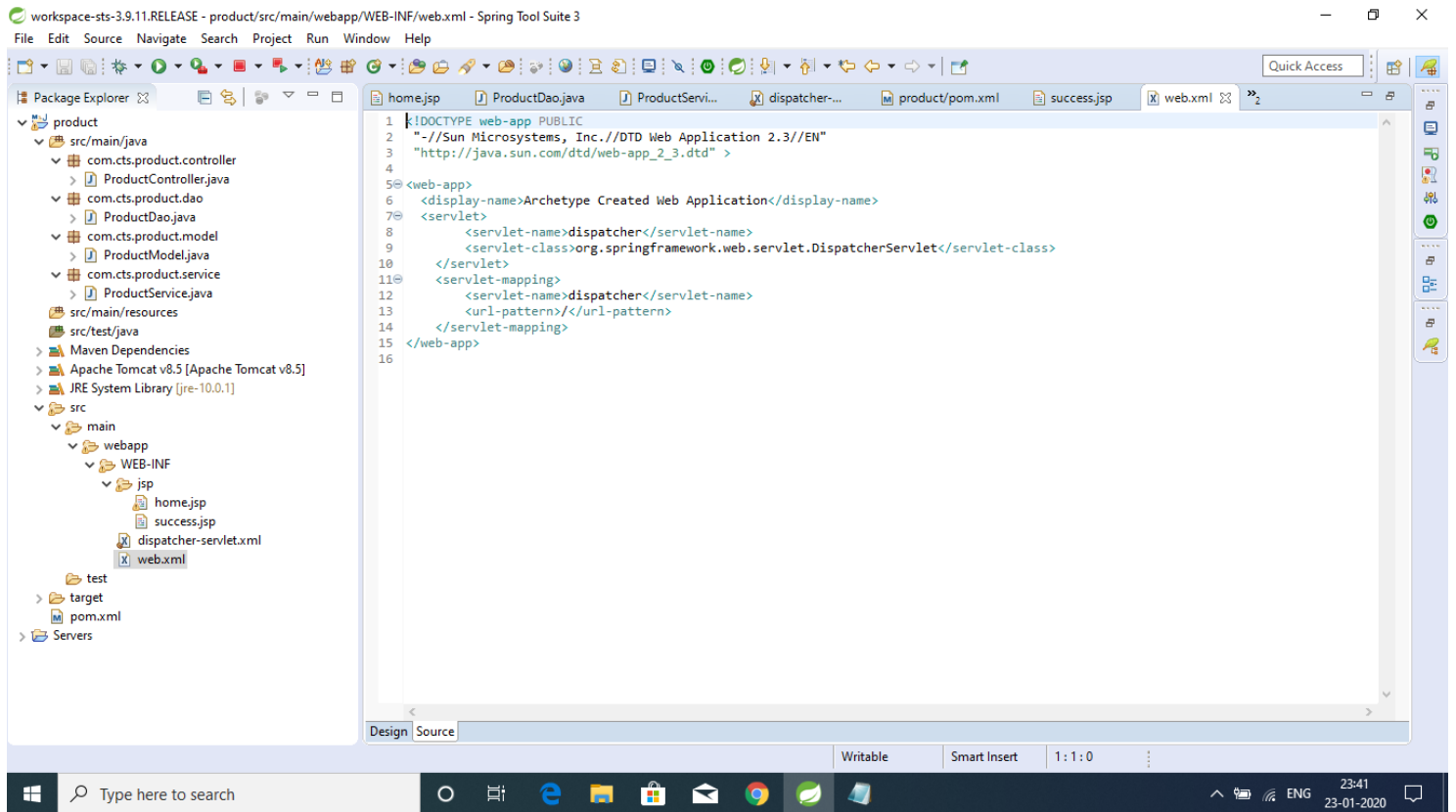


```
1<?xml version="1.0" encoding="UTF-8"?>
2<project xmlns="http://maven.apache.org/POM/4.0.0"
3  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
4  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
5  <modelVersion>4.0.0</modelVersion>
6  <groupId>com.cts</groupId>
7  <artifactId>product</artifactId>
8  <packaging>war</packaging>
9  <version>0.0.1-SNAPSHOT</version>
10 <name>product Maven Webapp</name>
11 <url>http://maven.apache.org</url>
12 <properties>
13   <maven.compiler.source>1.8</maven.compiler.source>
14   <maven.compiler.target>1.8</maven.compiler.target>
15   <spring.version>4.3.4.RELEASE</spring.version>
16 </properties>
17 <dependencies>
18   <!-- https://mvnrepository.com/artifact/org.springframework/spring-context -->
19   <dependency>
20     <groupId>org.springframework</groupId>
21     <artifactId>spring-context</artifactId>
22     <version>${spring.version}</version>
23   </dependency>
24   <!-- https://mvnrepository.com/artifact/org.springframework/spring-web -->
25   <dependency>
26     <groupId>org.springframework</groupId>
27     <artifactId>spring-web</artifactId>
28     <version>${spring.version}</version>
29   </dependency>
30   <!-- https://mvnrepository.com/artifact/org.springframework/spring-webmvc -->
31   <dependency>
32     <groupId>org.springframework</groupId>
33     <artifactId>spring-webmvc</artifactId>
34     <version>${spring.version}</version>
35   </dependency>
36   <!-- Form Validation Utilities -->
37 </dependencies>
38 </project>
```

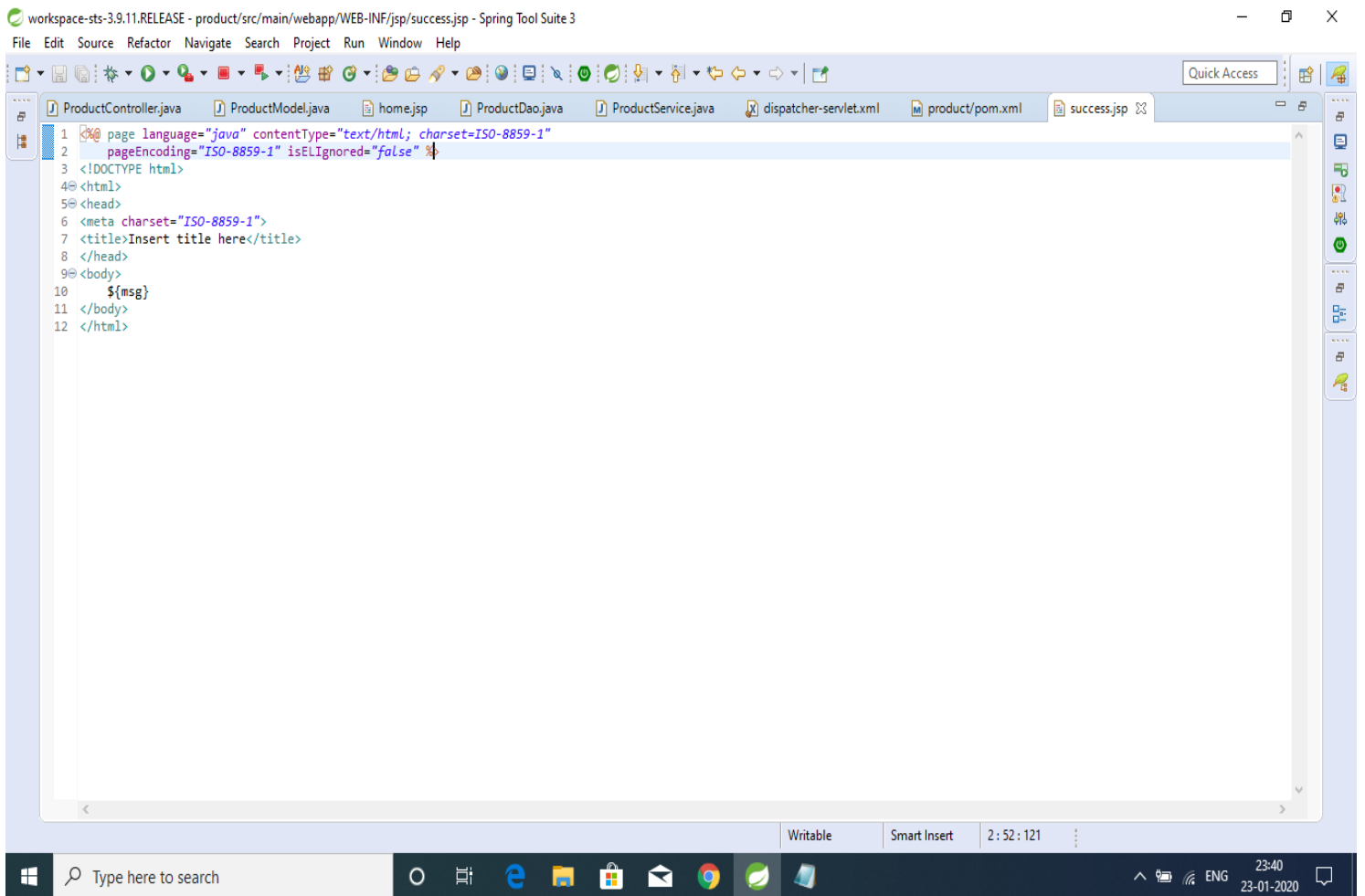


```
26   <artifactId>spring-web</artifactId>
27   <version>${spring.version}</version>
28 </dependency>
29 <!-- https://mvnrepository.com/artifact/org.springframework/spring-webmvc -->
30 <dependency>
31   <groupId>org.springframework</groupId>
32   <artifactId>spring-webmvc</artifactId>
33   <version>${spring.version}</version>
34 </dependency>
35 <!-- Form Validation Utilities -->
36 <!-- https://mvnrepository.com/artifact/javax.validation/validation-api -->
37 <dependency>
38   <groupId>javax.validation</groupId>
39   <artifactId>validation-api</artifactId>
40   <version>1.0.0.GA</version>
41 </dependency>
42 <!-- https://mvnrepository.com/artifact/org.hibernate/hibernate-validator -->
43 <dependency>
44   <groupId>org.hibernate</groupId>
45   <artifactId>hibernate-validator</artifactId>
46   <version>4.3.1.Final</version>
47 </dependency>
48 <!-- This dependency is only for Java Version greater than 8 -->
49 <dependency>
50   <groupId>javax.xml.bind</groupId>
51   <artifactId>jaxb-api</artifactId>
52   <version>2.3.1</version>
53 </dependency>
54 </dependencies>
55 <build>
56   <finalName>product</finalName>
57 </build>
58 </project>
```

Step 11:



Code Snippets:



workspace-sts-3.9.11.RELEASE - product/src/main/webapp/WEB-INF/jsp/success.jsp - Spring Tool Suite 3

File Edit Source Refactor Navigate Search Project Run Window Help

Quick Access

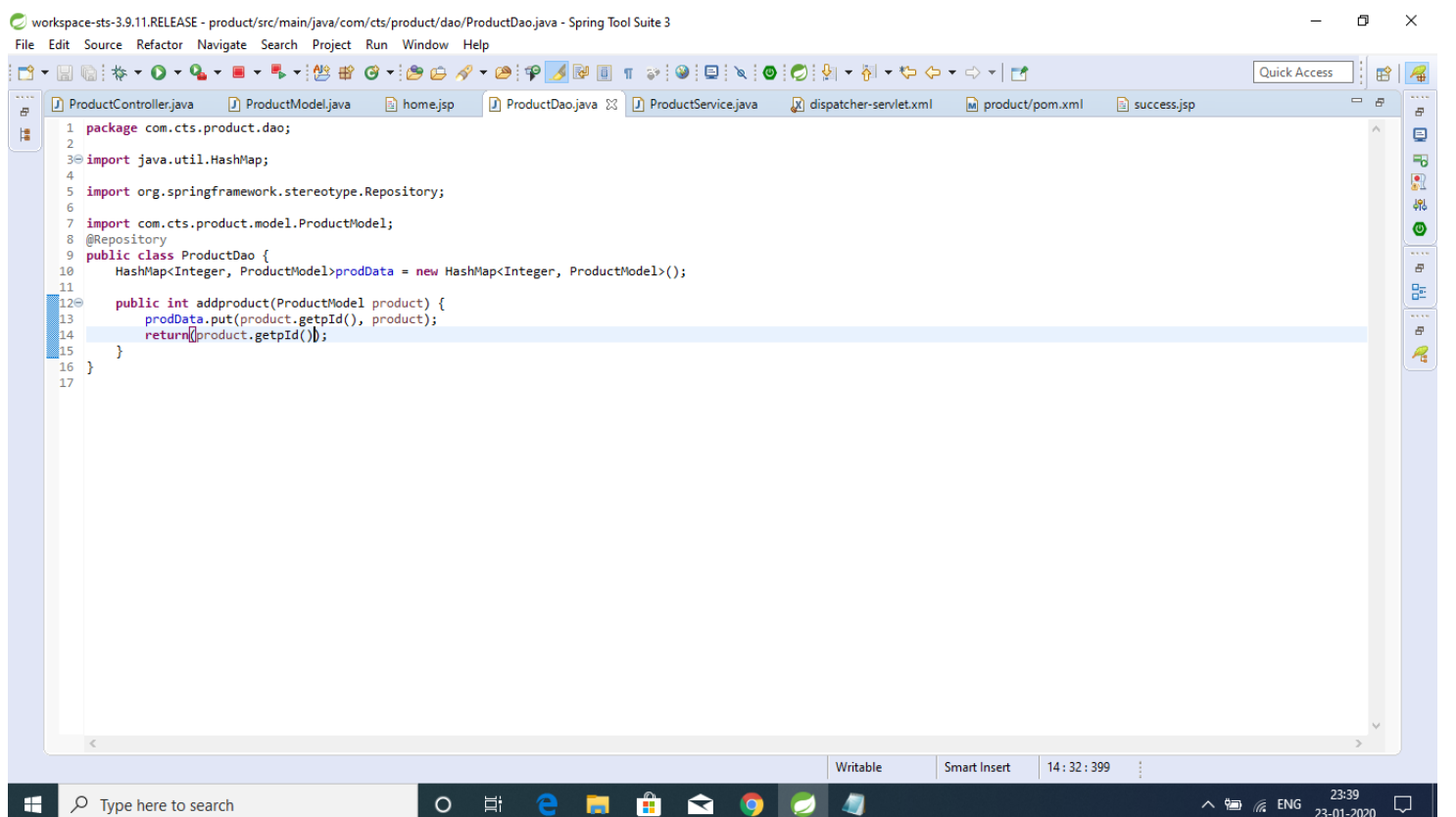
ProductController.java ProductModel.java home.jsp ProductDao.java ProductService.java dispatcher-servlet.xml product/pom.xml success.jsp

```
1 <%@ page language="java" contentType="text/html; charset=ISO-8859-1" %>
2 <% pageEncoding="ISO-8859-1" isELIgnored="false" %>
3 <!DOCTYPE html>
4 <html>
5 <head>
6 <meta charset="ISO-8859-1" %>
7 <title>Insert title here</title>
8 </head>
9 <body>
10 <${msg}</body>
11 </body>
12 </html>
```

Writable Smart Insert 2:52:121

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23:40 23-01-2020



workspace-sts-3.9.11.RELEASE - product/src/main/java/com/cts/product/dao/ProductDao.java - Spring Tool Suite 3

File Edit Source Refactor Navigate Search Project Run Window Help

Quick Access

ProductController.java ProductModel.java home.jsp ProductDao.java ProductService.java dispatcher-servlet.xml product/pom.xml success.jsp

```
1 package com.cts.product.dao;
2
3 import java.util.HashMap;
4
5 import org.springframework.stereotype.Repository;
6
7 import com.cts.product.model.ProductModel;
8 @Repository
9 public class ProductDao {
10     HashMap<Integer, ProductModel> prodData = new HashMap<Integer, ProductModel>();
11
12     public int addproduct(ProductModel product) {
13         prodData.put(product.getId(), product);
14         return product.getId();
15     }
16 }
17
```

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23:39 23-01-2020

workspace-sts-3.9.11.RELEASE - product/src/main/java/com/cts/product/service/ProductService.java - Spring Tool Suite 3

File Edit Source Refactor Navigate Search Project Run Window Help

ProductController.java ProductModel.java home.jsp ProductDao.java ProductService.java dispatcher-servlet.xml product/pom.xml success.jsp

```
1 package com.cts.product.service;
2
3 import org.springframework.beans.factory.annotation.Autowired;
4 import org.springframework.stereotype.Service;
5
6 import com.cts.product.dao.ProductDao;
7 import com.cts.product.model.ProductModel;
8 @Service
9 public class ProductService {
10     @Autowired
11     ProductDao prodDao;
12     public int addproduct(ProductModel product) {
13         return prodDao.addproduct(product);
14     }
15 }
16
```

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23:39 23-01-2020

workspace-sts-3.9.11.RELEASE - product/src/main/java/com/cts/product/controller/ProductController.java - Spring Tool Suite 3

File Edit Source Refactor Navigate Search Project Run Window Help

ProductController.java ProductModel.java home.jsp ProductDao.java ProductService.java dispatcher-servlet.xml product/pom.xml success.jsp

```
7 import org.springframework.ui.Model;
8 import org.springframework.validation.BindingResult;
9 import org.springframework.web.bind.annotation.ModelAttribute;
10 import org.springframework.web.bind.annotation.RequestMapping;
11 import org.springframework.web.bind.annotation.RequestMethod;
12 import org.springframework.web.servlet.ModelAndView;
13
14 import com.cts.product.model.ProductModel;
15 import com.cts.product.service.ProductService;
16
17 @Controller
18 public class ProductController {
19     @Autowired
20     ProductModel product;
21     @Autowired
22     ProductService prodService;
23     @RequestMapping("/")
24     public String gotohome(Model m) {
25         m.addAttribute("product",product);
26         return "home";
27     }
28
29     @RequestMapping(value="process.do",method=RequestMethod.POST)
30     public ModelAndView processproduct(@Valid @ModelAttribute("product") ProductModel product,BindingResult br) {
31         String path=null;
32         ModelAndView modelAndView = new ModelAndView();
33         if(br.hasErrors()) {
34             path="home";
35         }
36         else {
37             path="success";
38             int pid = prodService.addproduct(product);
39             modelAndView.addObject("msg","Stored successfully with "+pid+" !!!");
40         }
41         modelAndView.setViewName(path);
42         return modelAndView;
43     }
44 }
45
```

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23:39 23-01-2020

```
ProductController.java ProductModel.java home.jsp ProductDao.java ProductService.java dispatcher-servlet.xml product/pom.xml success.jsp
1 <%@ page language="java" contentType="text/html; charset=ISO-8859-1"
2   pageEncoding="ISO-8859-1"%>
3 <%@ taglib prefix="spring"
4   uri="http://www.springframework.org/tags/form"%>
5 <!DOCTYPE html>
6 <html>
7 <head>
8   <meta charset="ISO-8859-1">
9   <title>Insert title here</title>
10 </head>
11 <body>
12   <center>
13     <h2>Enter Product Detail</h2>
14   </center>
15   <center>
16     <spring:form method="post" action="process.do" modelAttribute="product">
17       Product Id<spring:input type="text" path="pid" />
18       <spring:errors path="pid"></spring:errors></br>
19       Product Name<spring:input type="text" path="pName" />
20       <spring:errors path="pName"></spring:errors></br>
21       Product Quantity<spring:input type="text" path="pQuantity" />
22       <spring:errors path="pQuantity"></spring:errors></br>
23       Product Price<spring:input type="text" path="pPrice" />
24       <spring:errors path="pPrice"></spring:errors></br>
25       Product Tax<spring:input type="text" path="pTax" />
26       <spring:errors path="pTax"></spring:errors></br>
27       <input type="submit" value="save" />
28     </spring:form>
29   </center>
30 </body>
31 </html>
```

html/body/center/spring:form/spring:errors/path

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18:37:518

