

Exercise 4: Creating and Configuring a Maven Project

Scenario:

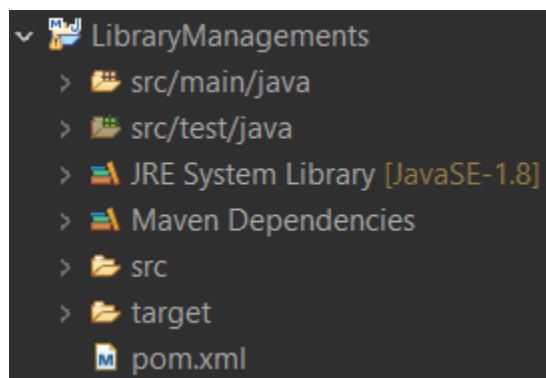
You need to set up a new Maven project for the library management application and add Spring dependencies.

Steps:

1. Create a New Maven Project:

- Create a new Maven project named LibraryManagement.

Output:



2. Add Spring Dependencies in pom.xml:

- Include dependencies for Spring Context, Spring AOP, and Spring WebMVC.

Output:

```
LibraryManagements/pom.xml ×
21 <version>5.3.1</version>
22 <scope>test</scope>
23 </dependency>
24 <!-- Spring Context (Core + Beans + Context) -->
25 <dependency>
26 <groupId>org.springframework</groupId>
27 <artifactId>spring-context</artifactId>
28 <version>5.3.34</version>
29 </dependency>
30
31 <!-- Spring AOP (for Aspect-Oriented Programming) -->
32 <dependency>
33 <groupId>org.springframework</groupId>
34 <artifactId>spring-aop</artifactId>
35 <version>5.3.34</version>
36 </dependency>
37
38 <!-- Spring Web MVC -->
39 <dependency>
40 <groupId>org.springframework</groupId>
41 <artifactId>spring-webmvc</artifactId>
42 <version>5.3.34</version>
43 </dependency>
44 </dependencies>
45 <build>
46 <plugins>
47 <!-- Maven Compiler Plugin -->
48 <plugin>
49 <groupId>org.apache.maven.plugins</groupId>
50 <artifactId>maven-compiler-plugin</artifactId>
51 <version>3.8.1</version>
52 <configuration>
53 <source>1.8</source>
54 <target>1.8</target>
55 </configuration>
```

3. Configure Maven Plugins:

Configure the Maven Compiler Plugin for Java version 1.8 in the pom.xml file.

```
46 <plugins>
47 <!-- Maven Compiler Plugin -->
48 <plugin>
49 <groupId>org.apache.maven.plugins</groupId>
50 <artifactId>maven-compiler-plugin</artifactId>
51 <version>3.8.1</version>
52 <configuration>
53 <source>1.8</source>
54 <target>1.8</target>
55 </configuration>
56 </plugin>
57 </plugins>
58 </build>
59 </project>
60
```