**Spring Core Maven**

**EXERCISE 4: Creating and Configuring a Maven Project**

**Source Code**

* In Eclipse:
* Go to File → New → Maven Project -> **/LibraryAppSetup**
* Add Spring Dependencies in **pom.xml.**

1. <project xmlns="http://maven.apache.org/POM/4.0.0"
2. xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
3. xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
4. https://maven.apache.org/xsd/maven-4.0.0.xsd">
5. <modelVersion>4.0.0</modelVersion>
6. <groupId>com.library</groupId>
7. <artifactId>LibraryAppSetup</artifactId>
8. <version>0.0.1-SNAPSHOT</version>
9. <properties>
10. <maven.compiler.source>1.8</maven.compiler.source>
11. <maven.compiler.target>1.8</maven.compiler.target>
12. </properties>
13. <dependencies>
14. <!-- Spring Core / Context -->
15. <dependency>
16. <groupId>org.springframework</groupId>
17. <artifactId>spring-context</artifactId>
18. <version>5.3.32</version>
19. </dependency>
20. <!-- Spring AOP -->
21. <dependency>
22. <groupId>org.springframework</groupId>
23. <artifactId>spring-aop</artifactId>
24. <version>5.3.32</version>
25. </dependency>
26. <!-- Spring Web MVC -->
27. <dependency>
28. <groupId>org.springframework</groupId>
29. <artifactId>spring-webmvc</artifactId>
30. <version>5.3.32</version>
31. </dependency>
32. <!-- Logging (optional) -->
33. <dependency>
34. <groupId>commons-logging</groupId>
35. <artifactId>commons-logging</artifactId>
36. <version>1.2</version>
37. </dependency>
38. </dependencies>
39. <!-- Step 3: Maven Compiler Plugin -->
40. <build>
41. <plugins>
42. <plugin>
43. <groupId>org.apache.maven.plugins</groupId>
44. <artifactId>maven-compiler-plugin</artifactId>
45. <version>3.8.1</version>
46. <configuration>
47. <source>1.8</source>
48. <target>1.8</target>
49. </configuration>
50. </plugin>
51. </plugins>
52. </build>
53. </project>

* **Right-click project → Maven → Update Project**
* **Maven Dependencies:**

commons-logging-1.2.jar

spring-aop-5.3.32.jar

spring-beans-5.3.32.jar

spring-context-5.3.32.jar

spring-core-5.3.32.jar

spring-expression-5.3.32.jar

spring-jcl-5.3.32.jar

spring-web-5.3.32.jar

spring-webmvc-5.3.32.jar

* Confirm Compiler Plugin
* In pom.xml, confirm this section exists:

1. <properties>
2. <maven.compiler.source>1.8</maven.compiler.source>
3. <maven.compiler.target>1.8</maven.compiler.target>
4. </properties

* Also, confirm:

1. <plugin>
2. <groupId>org.apache.maven.plugins</groupId>
3. <artifactId>maven-compiler-plugin</artifactId>
4. <version>3.8.1</version>

* Test with a Small Java Class: (Optional)
  + create a test class:
  + **📁 com.library.test.HelloTest**
* package com.library.test;

public class HelloTest {

public static void main(String[] args) {

System.out.println("Maven project is working fine!");

}

}

**Output:**

