

## 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**.
2. **Add Spring Dependencies in pom.xml:**
  - Include dependencies for Spring Context, Spring AOP, and Spring WebMVC.
3. **Configure Maven Plugins:**
  - Configure the Maven Compiler Plugin for Java version 1.8 in the pom.xml file.

### pom.xml:

```
<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/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>

  <groupId>com.library</groupId>
  <artifactId>LibraryManagement</artifactId>
  <version>0.0.1-SNAPSHOT</version>

  <dependencies>
    <dependency>
      <groupId>org.springframework</groupId>
      <artifactId>spring-context</artifactId>
      <version>5.3.34</version>
    </dependency>
    <dependency>
      <groupId>org.springframework</groupId>
```

```
        <artifactId>spring-aop</artifactId>
        <version>5.3.34</version>
    </dependency>
    <dependency>
        <groupId>org.springframework</groupId>
        <artifactId>spring-webmvc</artifactId>
        <version>5.3.34</version>
    </dependency>
    <dependency>
        <groupId>jakarta.servlet</groupId>
        <artifactId>jakarta.servlet-api</artifactId>
        <version>5.0.0</version>
        <scope>provided</scope>
    </dependency>
</dependencies>

<build>
    <plugins>
        <plugin>
            <groupId>org.apache.maven.plugins</groupId>
            <artifactId>maven-compiler-plugin</artifactId>
            <version>3.11.0</version>
            <configuration>
                <source>1.8</source>
                <target>1.8</target>
            </configuration>
        </plugin>
    </plugins>
</build>
</project>
```

## OUTPUT:

```
[INFO] --- jar:3.4.1:jar (default-jar) @ LibraryManagement ---
[INFO] Building jar: C:\Users\swethaganesh\eclipse-workspace\LibraryManagement\target\LibraryManagement-0.0.1-SNAPSHOT.jar
[INFO]
[INFO] --- install:3.1.1:install (default-install) @ LibraryManagement ---
[INFO] Installing C:\Users\swethaganesh\eclipse-workspace\LibraryManagement\pom.xml to C:\Users\swethaganesh\.m2\repository\com\library\LibraryManagement\0.0
[INFO] Installing C:\Users\swethaganesh\eclipse-workspace\LibraryManagement\target\LibraryManagement-0.0.1-SNAPSHOT.jar to C:\Users\swethaganesh\.m2\reposito
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 13.215 s
[INFO] Finished at: 2025-07-05T15:03:03+05:30
[INFO] -----
```