Exercise 4: Creating and Configuring a Maven Project

Subject: Spring Framework

Title: LibraryManagement - Maven Project Configuration

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# Objective

To create and configure a Maven project for the LibraryManagement application and include the necessary Spring dependencies.

# Step 1: Create a New Maven Project

A new Maven project named `LibraryManagement` is created using the following structure:

LibraryManagement/  
├── src/  
│ ├── main/  
│ │ ├── java/  
│ │ └── resources/  
│ └── test/  
│ └── java/  
├── pom.xml

# Step 2: Add Spring Dependencies in pom.xml

The `pom.xml` file includes dependencies for Spring Context, Spring AOP, and Spring WebMVC:

<dependencies>  
 <!-- Spring Context -->  
 <dependency>  
 <groupId>org.springframework</groupId>  
 <artifactId>spring-context</artifactId>  
 <version>5.3.29</version>  
 </dependency>  
  
 <!-- Spring AOP -->  
 <dependency>  
 <groupId>org.springframework</groupId>  
 <artifactId>spring-aop</artifactId>  
 <version>5.3.29</version>  
 </dependency>  
  
 <!-- Spring WebMVC -->  
 <dependency>  
 <groupId>org.springframework</groupId>  
 <artifactId>spring-webmvc</artifactId>  
 <version>5.3.29</version>  
 </dependency>  
</dependencies>

# Step 3: Configure Maven Plugins

Configure the Maven Compiler Plugin for Java version 1.8:

<build>  
 <plugins>  
 <plugin>  
 <groupId>org.apache.maven.plugins</groupId>  
 <artifactId>maven-compiler-plugin</artifactId>  
 <version>3.8.1</version>  
 <configuration>  
 <source>1.8</source>  
 <target>1.8</target>  
 </configuration>  
 </plugin>  
 </plugins>  
</build>

# Conclusion

The Maven project was successfully set up for the LibraryManagement application. All essential Spring dependencies were added, and the project was configured to use Java 1.8 through the Maven Compiler Plugin.