Exercise 4: Creating and Configuring a Maven Project

Code:

```
pom.xml:
<?xml version="1.0" encoding="UTF-8"?>
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
    https://maven.apache.org/xsd/maven-4.0.0.xsd">
 <modelVersion>4.0.0</modelVersion>
 <groupId>com.library
 <artifactId>LibraryManagement</artifactId>
 <version>1.0-SNAPSHOT
 cproperties>
    <java.version>1.8</java.version>
    <maven.compiler.source>${java.version}</maven.compiler.source>
    <maven.compiler.target>${java.version}</maven.compiler.target>
 </properties>
 <dependencies>
    <dependency>
     <groupId>org.springframework
     <artifactId>spring-context</artifactId>
     <version>5.3.30</version>
    </dependency>
    <!-- Spring AOP -->
    <dependency>
     <groupId>org.springframework
     <artifactId>spring-aop</artifactId>
     <version>5.3.30</version>
```

</dependency>

```
<dependency>
    <groupId>org.springframework
    <artifactId>spring-webmvc</artifactId>
   <version>5.3.30</version>
  </dependency>
  <dependency>
    <groupId>javax.servlet
    <artifactId>javax.servlet-api</artifactId>
    <version>4.0.1</version>
   <scope>provided</scope>
  </dependency>
  <dependency>
    <groupId>junit
    <artifactId>junit</artifactId>
   <version>4.13.2</version>
   <scope>test</scope>
 </dependency>
</dependencies>
<build>
 <plugins>
    <plugin>
      <groupId>org.apache.maven.plugins
      <artifactId>maven-compiler-plugin</artifactId>
      <version>3.8.1</version>
     <configuration>
       <source>${java.version}</source>
       <target>${java.version}</target>
     </configuration>
    </plugin>
 </plugins>
</build>
```

```
</project>
applicationContext.xml:
<?xml version="1.0" encoding="UTF-8"?>
<beans xmlns="http://www.springframework.org/schema/beans"</pre>
   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
   xsi:schemaLocation="
      http://www.springframework.org/schema/beans
      https://www.springframework.org/schema/beans/spring-beans.xsd">
</beans>
LibraryApp.java:
package com.libraries;
import org.springframework.context.ApplicationContext;
import org.springframework.context.support.ClassPathXmlApplicationContext;
public class LibraryApp {
  public static void main(String[] args) {
    ApplicationContext <u>context</u> = new ClassPathXmlApplicationContext("applicationContext.xml");
    System. out. println ("Spring context loaded successfully!");
  }
}
Output:
                                                                                                      _ _
                                                                  *LibraryMana...
                 applicationC...
                                 BookReposit...
                                                  BookService....
1 package com.libraries;
  3 import org.springframework.context.ApplicationContext;
  4 import org.springframework.context.support.ClassPathXmlApplicationContext;
  6 public class LibraryApp {
         public static void main(String[] args) {
  70
             ApplicationContext context = new ClassPathXmlApplicationContext("applicationContext.xml");
             System.out.println("Spring context loaded successfully!");
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                                                                     📃 Console 🗡 🔓 Coverage
<terminated> LibraryApp [Java Application] C:\Program Files\Java\jdk-21\bin\javaw.exe (06-Jul-2025, 1:05:31pm – 1:05:39pm) [pid: 25876]
Spring context loaded successfully!
```