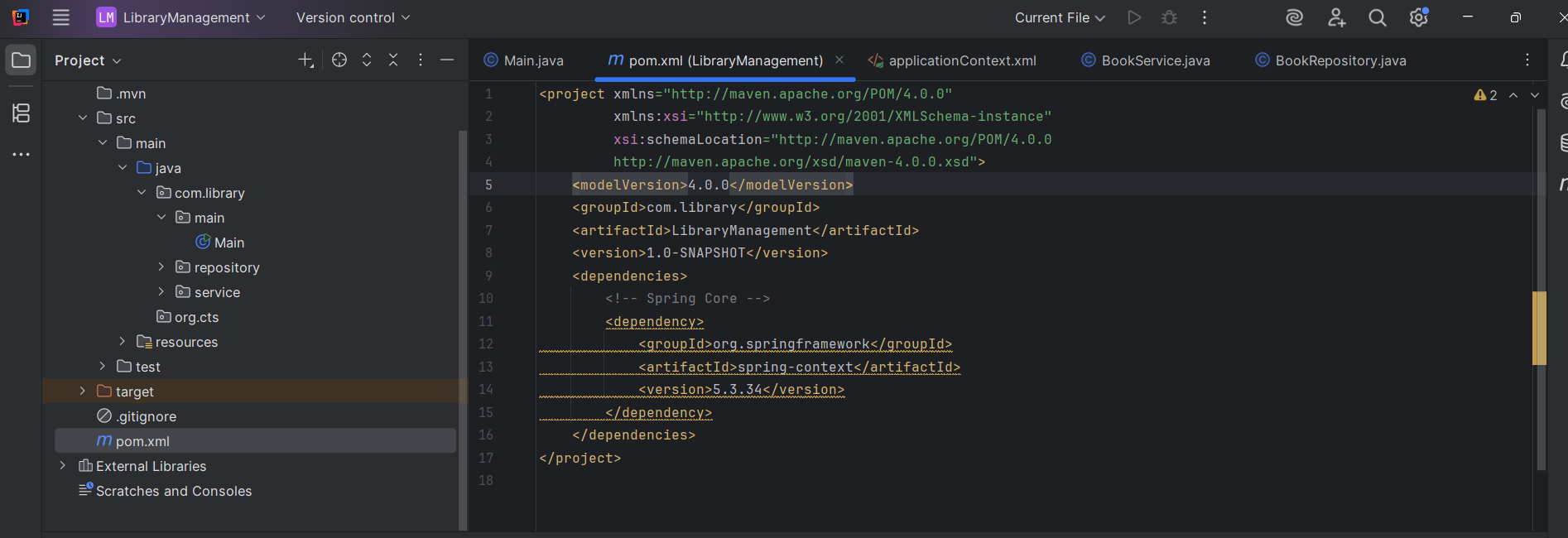
**WEEK 3**

**Exercise 1: Configuring a Basic Spring Application**

*Pom.xml*



*BookRepository.class*

A screen shot of a computer

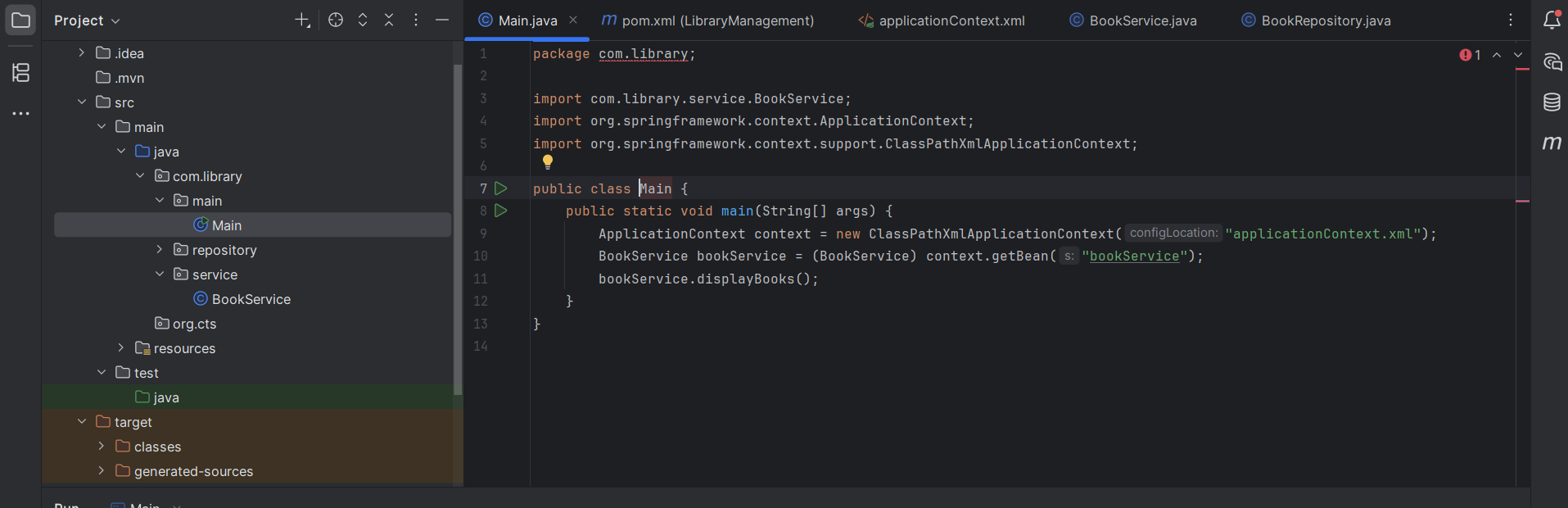
AI-generated content may be incorrect.

*BookService.class*

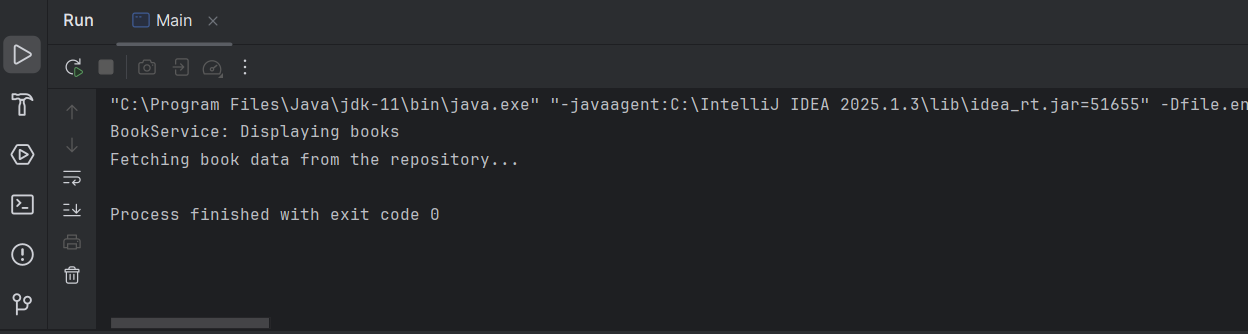
A computer screen shot of text

AI-generated content may be incorrect.

*Main.class*



**Output:**

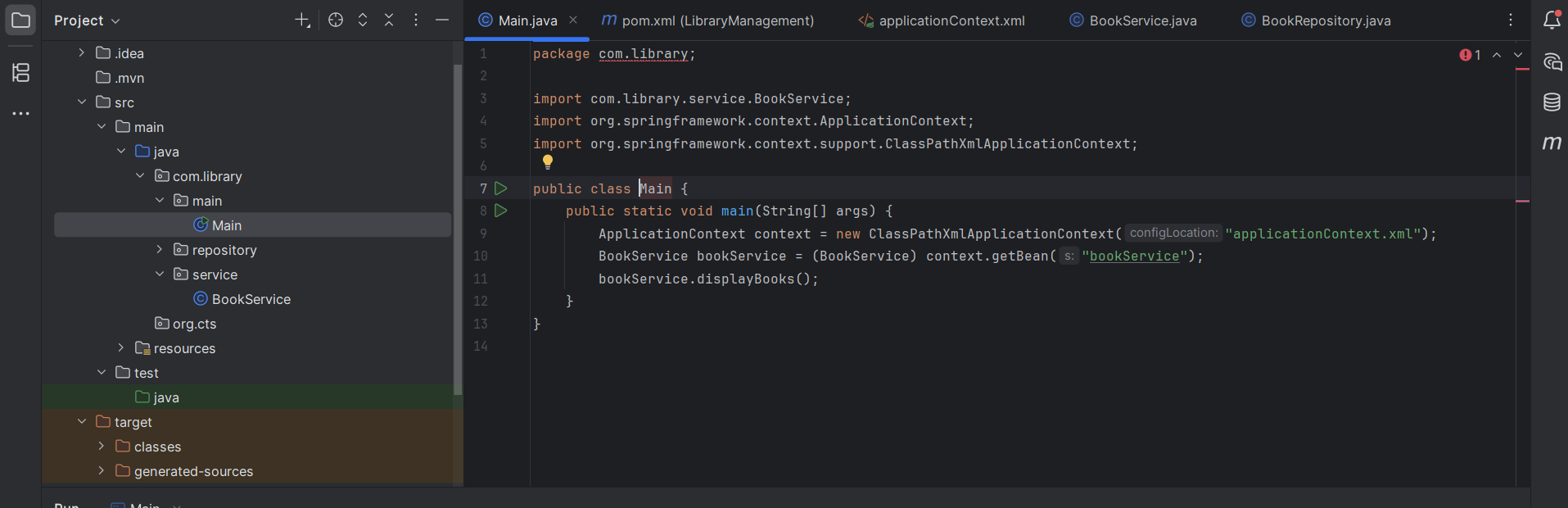
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**Exercise 2: Implementing Dependency Injection**

Pom.xml, Bookservice.class, BookRepository.java are same as Exercise1

*Main.class*



***Output:***

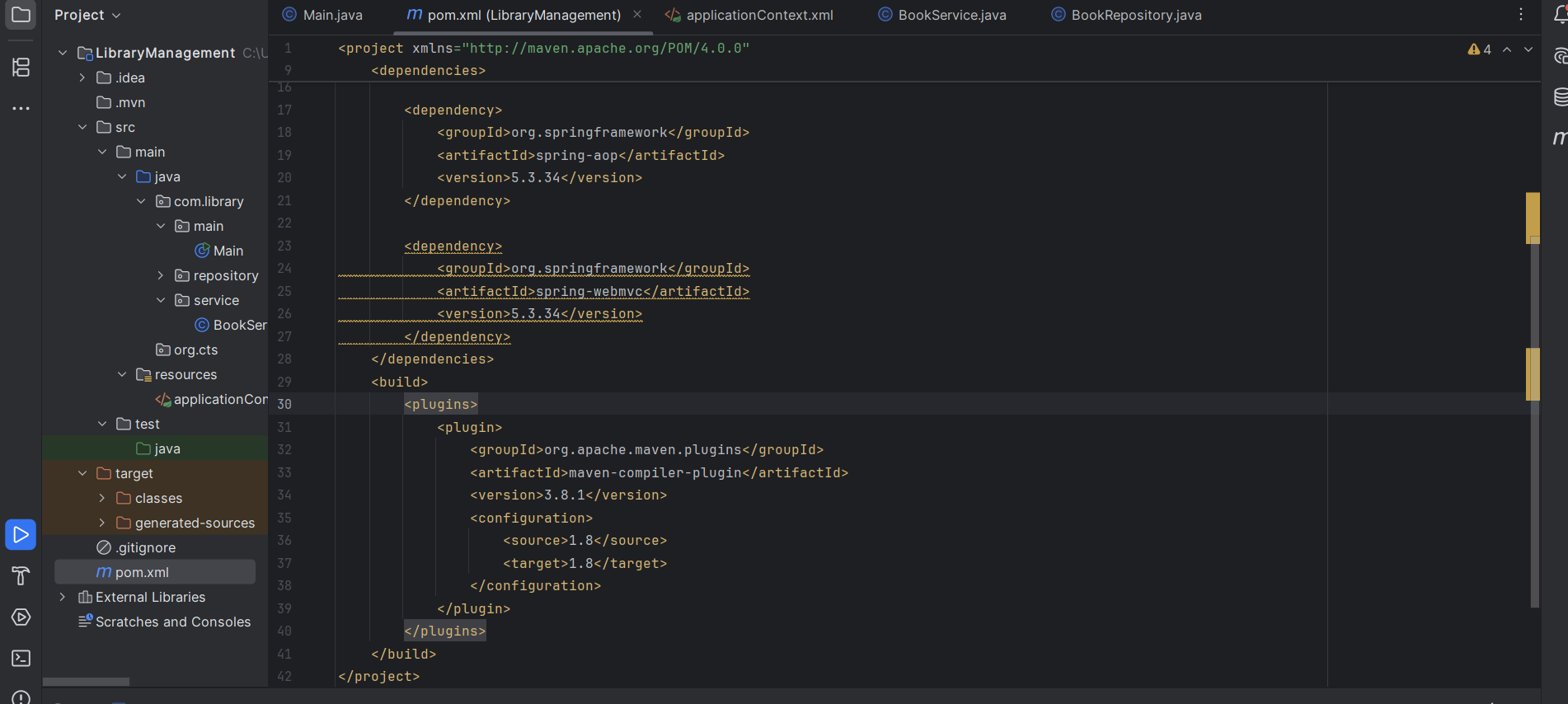
**A screenshot of a computer

AI-generated content may be incorrect.**

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

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

Pom.xml



**Exercise 5: Configuring the Spring IoC Container**

In this exercise, the focus is on understanding how the Spring IoC (Inversion of Control) container manages the application's components. Although the code and output are the same as Exercise 1, this exercise highlights the internal working of Spring — how it creates, wires, and manages beans using the configuration defined in applicationContext.xml. By defining beans for BookService and BookRepository, and using setter-based dependency injection, Spring handles the object creation and linking. This demonstrates the power of the IoC container, where control over object creation is inverted from the developer to the framework.

BookService.class

A computer screen shot of text

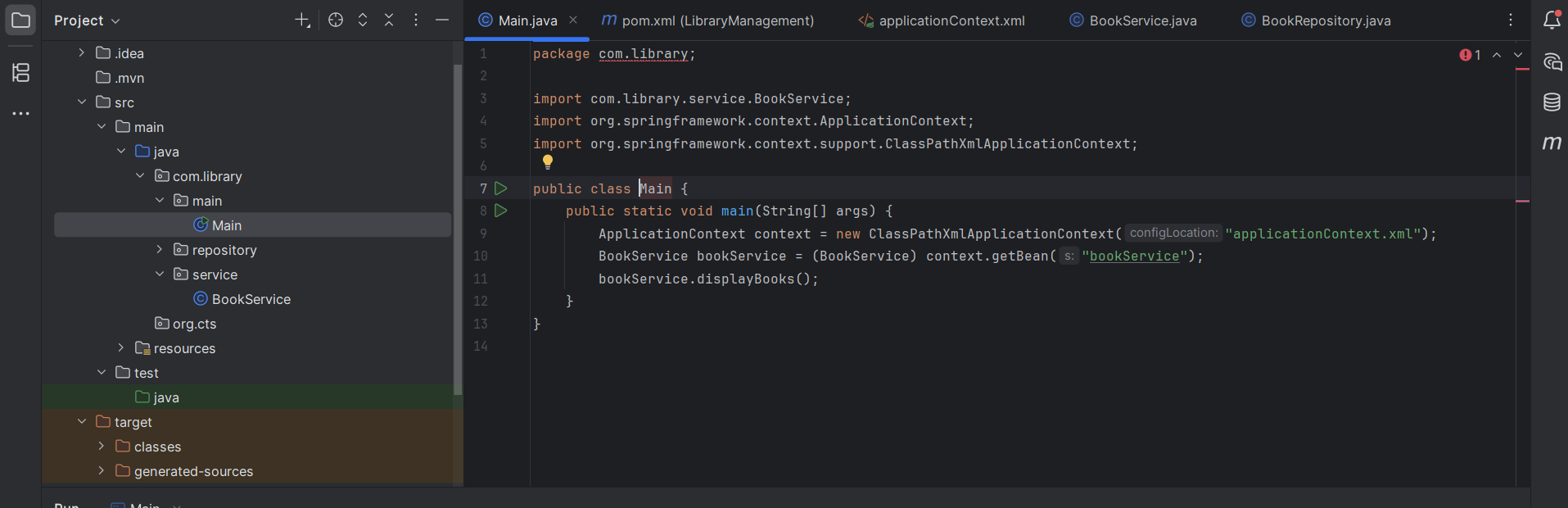
AI-generated content may be incorrect.

BookRepository.class

A screen shot of a computer

AI-generated content may be incorrect.

Main.class



Output :

**A screenshot of a computer

AI-generated content may be incorrect.**

**Exercise 7: Implementing Constructor and Setter Injection**

NotificationService.java

A screenshot of a computer

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BookService.java

A screen shot of a computer

AI-generated content may be incorrect.

Main.java

A screenshot of a computer

AI-generated content may be incorrect.

applicationContext.xml

A screen shot of a computer

AI-generated content may be incorrect.

Output:

A screenshot of a computer

AI-generated content may be incorrect.