Spring core and Maven Exercises

Exercise 1: Configuring a Basic Spring Application

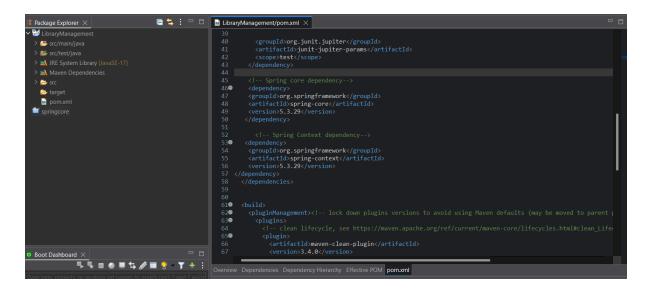
Scenario:

Your company is developing a web application for managing a library. You need to use the Spring Framework to handle the backend operations.

Steps:

1. Set Up a Spring Project:

- Create a Maven project named LibraryManagement.
- o Add Spring Core dependencies in the **pom.xml** file.



2. Configure the Application Context:

- Create an XML configuration file named applicationContext.xml in the src/main/resources directory.
- Define beans for BookService and BookRepository in the XML file.

3. Define Service and Repository Classes:

- Create a package com.library.service and add a class BookService.
- Create a package com.library.repository and add a class BookRepository.

```
package com.library.service;

import com.library.repository.BookRepository;

public class BookService {

private BookRepository bookRepository;

public BookRepository getBookRepository() {
 return bookRepository;
}

public void setBookRepository(BookRepository bookRepository) {
 this.bookRepository = bookRepository;
}

public String toString() {
 return "---BookService----\n----BookRepository----\n" + bookRepository;
}

return "---BookService----\n----BookRepository----\n" + bookRepository;
}

public String toString() {
 return "----BookService----\n----BookRepository----\n" + bookRepository;
}
```

4. Run the Application:

o Create a main class to load the Spring context and test the configuration.

