Exercise 2: Implementing Dependency Injection

1. Modify the XML Configuration

I updated applicationContext.xml to inject BookRepository into BookService using setter injection.

2. Update the BookService Class

```
The class already had a setter, but I checked it again. It looks like this:

package com.library.service;

import com.library.repository.BookRepository;

public class BookService {
    private BookRepository bookRepository;

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

    public void addBook() {
        bookRepository.saveBook();
        System.out.println("Book added from service");
    }
}
```

3. Test the Configuration

Ran the main class to see if Spring injects the dependency properly.

```
import org.springframework.context.ApplicationContext;
import org.springframework.context.support.ClassPathXmlApplicationContext;
import com.library.service.BookService;

public class LibraryManagementApplication {
    public static void main(String[] args) {
        ApplicationContext context = new

ClassPathXmlApplicationContext("applicationContext.xml");
        BookService bookService = (BookService) context.getBean("bookService");
        bookService.addBook();
    }
}
```

Output

Book saved to repo Book added from service