**Exercise 2: Implementing Dependency Injection**

**Scenario:**

In the library management application, you need to manage the dependencies between the BookService and BookRepository classes using Spring's IoC and DI.

**1.Modifed the XML Configuration:  
<?xml version=*"1.0"* encoding=*"UTF-8"*?>**

**<beans xmlns=*"http://www.springframework.org/schema/beans"***

**xmlns:xsi=*"http://www.w3.org/2001/XMLSchema-instance"***

**xsi:schemaLocation=*"***

***http://www.springframework.org/schema/beans***

***http://www.springframework.org/schema/beans/spring-beans.xsd"*>**

**<!-- Repository Bean -->**

**<bean id=*"bookRepository"* class=*"com.harshitha.springcore.LibraryManagement.BookRepository"*/>**

**<!-- Service Bean -->**

**<bean id=*"bookService"* class=*"com.harshitha.springcore.LibraryManagement.BookService"*>**

**<property name=*"bookRepository"* ref=*"bookRepository"*/>**

**</bean>**

**</beans>**

**2.Updated the BookService Class: written setter method in service class for book repository.  
package com.harshitha.springcore.LibraryManagement;**

**public class BookService {**

**private BookRepository bookrepository;**

**public void setBookRepository(BookRepository book depository)**

**{**

**this.book depository=book depository;**

**}**

**public void display()**

**{**

**bookrepository.getAllBooks();**

**}**

**}**

**package com.harshitha.springcore.LibraryManagement;**

**public class BookRepository {**

**public void getAllBooks()**

**{**

**System.*out*.println("fetching all the book records from the repository...");**

**}**

**}**

**LibraryApp.java**

**package com.harshitha.springcore.LibraryManagement;**

**import org.springframework.context.support.ClassPathXmlApplicationContext;**

**import org.springframework.context.ApplicationContext;**

**public class LibraryApp {**

**public static void main(String[] args) {**

**ApplicationContext context = new ClassPathXmlApplicationContext("applicationContext.xml");**

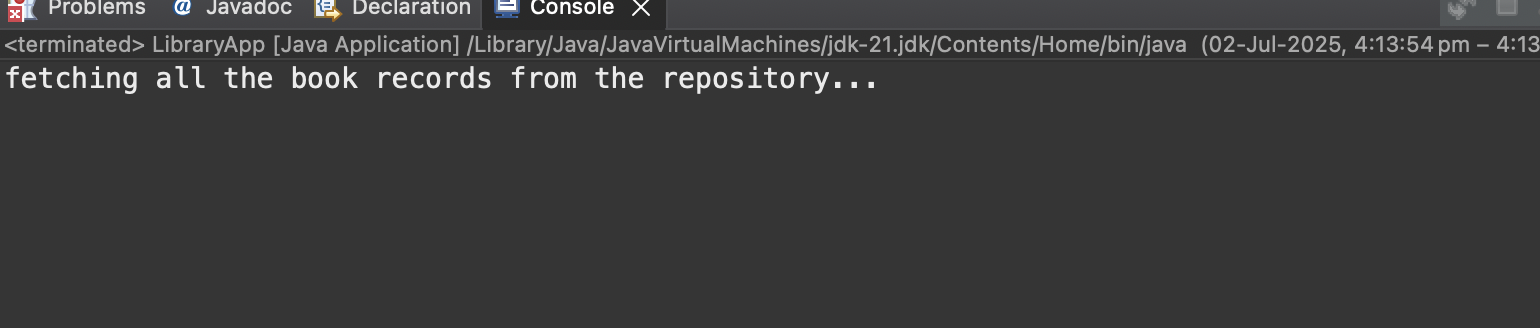
**BookService bookService = (BookService) context.getBean("bookService",BookService.class);**

**bookService.display();**

**}**

**}**

**Output:**

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