**Exercise 6: Configuring Beans with Annotations**

**Scenario:**

You need to simplify the configuration of beans in the library management application using annotations.

applicationContext.xml

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

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

xmlns:context="http://www.springframework.org/schema/context"

xsi:schemaLocation="http://www.springframework.org/schema/beans

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

http://www.springframework.org/schema/context

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

<!-- Enable component scanning -->

<context:component-scan base-package="com.library" />

</beans>

// BookService.java

package com.library.service;

import org.springframework.stereotype.Service;

@Service

public class BookService {

// Your service methods here

}

// BookRepository.java

package com.library.repository;

import org.springframework.stereotype.Repository;

@Repository

public class BookRepository {

// Your repository methods here

}

// LibraryManagementApplication.java

package com.library;

import com.library.service.BookService;

import org.springframework.context.ApplicationContext;

import org.springframework.context.support.ClassPathXmlApplicationContext;

public class LibraryManagementApplication {

public static void main(String[] args) {

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

// Retrieve the BookService bean

BookService bookService = context.getBean(BookService.class);

// Use the bookService bean to perform some operation

// For example: bookService.someMethod();

System.out.println("Library Management Application is running...");

}

}