**Pom.xml**

<project xmlns="http://maven.apache.org/POM/4.0.0"

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

xsi:schemaLocation="http://maven.apache.org/POM/4.0.0

http://maven.apache.org/xsd/maven-4.0.0.xsd">

<modelVersion>4.0.0</modelVersion>

<groupId>com.library</groupId>

<artifactId>LibraryManagement</artifactId>

<version>1.0-SNAPSHOT</version>

<dependencies>

<dependency>

<groupId>org.springframework</groupId>

<artifactId>spring-context</artifactId>

<version>5.3.32</version>

</dependency>

</dependencies>

<build>

<plugins>

<plugin>

<groupId>org.apache.maven.plugins</groupId>

<artifactId>maven-compiler-plugin</artifactId>

<version>3.10.1</version>

<configuration>

<source>1.8</source>

<target>1.8</target>

</configuration>

</plugin>

</plugins>

</build>

</project>

**BookRepository.java**

package com.library.repository;

public class BookRepository {

public void save(String bookName) {

System.out.println("BookRepository: Saving book → " + bookName);

}

}

**BookService.java**

package com.library.service;

import com.library.repository.BookRepository;

public class BookService {

private String libraryName; // Constructor injection

private BookRepository bookRepository; // Setter injection

// Constructor for libraryName

public BookService(String libraryName) {

this.libraryName = libraryName;

System.out.println("Constructor injection: Library name set to '" + libraryName + "'");

}

// Setter for BookRepository

public void setBookRepository(BookRepository bookRepository) {

this.bookRepository = bookRepository;

System.out.println("Setter injection: BookRepository injected");

}

public void addBook(String bookName) {

System.out.println("[" + libraryName + "] Adding book → " + bookName);

bookRepository.save(bookName);

}

}

**applicationContext.xml**

<?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.library.repository.BookRepository" />

<!-- Service Bean with Constructor + Setter Injection -->

<bean id="bookService" class="com.library.service.BookService">

<!-- Constructor injection -->

<constructor-arg value="Central Library" />

<!-- Setter injection -->

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

</beans>

**MainApp.java**

package com.library.main;

import com.library.service.BookService;

import org.springframework.context.ApplicationContext;

import org.springframework.context.support.ClassPathXmlApplicationContext;

public class MainApp {

public static void main(String[] args) {

// Load the Spring IoC container

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

// Get BookService bean

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

// Use the service

service.addBook("Spring in Action");

}

}

**OUTPUT:-**

A screenshot of a computer program

AI-generated content may be incorrect.