## 1.Set Up a Spring Project

## Pom.xml

```
project xmlns="http://maven.apache.org/POM/4.0.0"
     xmlns:xsi="http://www.w3.org/2001/XMLSche
     ma-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</version>
   <dependencies>
     <!-- Spring Core -->
     <dependency>
      <groupId>org.springframework</groupId>
      <artifactId>spring-context</artifactId>
      <version>5.3.34</version>
     </dependency>
   </dependencies>
 </project>
2.Configure the Application Context
 <?xml version="1.0" encoding="UTF-8"?>
 <br/>beans
    xmlns="http://www.springframework.org/schema"
    /beans"
    xmlns:xsi="http://www.w3.org/2001/XMLSchem"
```

a-instance" xsi:schemaLocation="

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

```
http://www.springframework.org/schema/beans
     http://www.springframework.org/schema/beans/spring-beans.xsd">
   <bean id="bookRepository" class="com.library.repository.BookRepository" />
   <bean id="bookService" class="com.library.service.BookService">
     property name="bookRepository" ref="bookRepository"/>
   </bean>
 </beans>
3.Define Service and Repository Classes
 com/library/repository/BookRepository.java
 package com.library.repository;
 public class BookRepository {
   public void saveBook(String title) {
     System.out.println("BookRepository: Saving book titled \"" + title + "\" to
     the database.");
   }
 com/library/service/BookService.java
 package com.library.service;
 import com.library.repository.BookRepository;
 public class BookService {
   private BookRepository bookRepository;
   // Setter for Dependency Injection
   public void setBookRepository(BookRepository) {
     this.bookRepository = bookRepository;
   public void addBook(String title) {
    System.out.println("BookService: Adding book titled \"" + title + "\"...");
     bookRepository.saveBook(title);
```

## 4.Run the Application

```
com/library/LibraryApp.java
package com.library;
import com.library.service.BookService;
import org.springframework.context.ApplicationContext;
import org.springframework.context.support.ClassPathXmlApplicationContext;
public class LibraryApp {
   public static void main(String[]
        args) { Load Spring context
        from XML
        ApplicationContext context = new
        ClassPathXmlApplicationContext("applicationContext.xml");
        BookService bookService = context.getBean("bookService",
        BookService.class);
        bookService.addBook("Effective Java");
    }
}
```

## **OUTPUT:**



