**Exercise 1: Configuring a Basic Spring Application**

**pom.xml**

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**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"*>

<bean

id=*"bookRepository"*

class=*"com.library.repository.BookRepository"*

/>

<bean

id=*"bookService"*

class=*"com.library.service.BookService"*>

<property

name=*"bookRepository"*

ref=*"bookRepository"*

/>

</bean>

</beans>

**BookRepository.java**

package com.library.repository;

public class BookRepository

{

public String getBook()

{

return "Basic Spring Application";

}

}

**BookService.java**

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 displayBook()

{

System.*out*.println("Book: " + bookRepository.getBook());

}

}

**App.java**

package com.library.LibraryManagement;

import com.library.service.BookService;

import org.springframework.context.ApplicationContext;

import org.springframework.context.support.ClassPathXmlApplicationContext;

public class App

{

public static void main(String[] args)

{

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

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

bookService.displayBook();

}

}

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**Exercise 2: Implementing Dependency Injection**

**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"*>

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class=*"com.library.repository.BookRepository"*

/>

<bean

id=*"bookService"*

class=*"com.library.service.BookService"*>

<property

name=*"bookRepository"*

ref=*"bookRepository"*

/>

</bean>

</beans>

**BookRepository.java**

package com.library.repository;

public class BookRepository

{

public String getBook()

{

return "Basic Spring Application";

}

}

**BookService.java**

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 displayBook()

{

String book = bookRepository.getBook();

System.*out*.println("Book: " + book);

}

}

**App.java**

package com.library.LibraryManagement;

import com.library.service.BookService;

import org.springframework.context.ApplicationContext;

import org.springframework.context.support.ClassPathXmlApplicationContext;

public class App

{

public static void main(String[] args)

{

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

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

bookService.displayBook();

}

}

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**Exercise 4: Creating and Configuring a Maven Project**

**pom.java**

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