

Exercise 1: Configuring a Basic Spring Application

Tool: IntelliJ IDEA

App.java

```
package com.library;

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.addBook("Spring in Action");
        ((ClassPathXmlApplicationContext) context).close();
    }
}
```

BookRepository java class file:

```
package com.library.repository;

public class BookRepository {
    public void saveBook(String title) {
        System.out.println("Book saved: " + title);
    }
}
```

Bookservice java class file:

```
package com.library.service;

import com.library.repository.BookRepository;

public class BookService {
```

```

private BookRepository bookRepository;

// Setter Injection
public void setBookRepository(BookRepository bookRepository) {
    this.bookRepository = bookRepository;
}

public void addBook(String title) {
    bookRepository.saveBook(title);
}
}

```

applicationContext.xml file:

```

<?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>

```

Output:

