

Dependency Injection:

Code:

1. librarymanagement/src/main/java/com/library/repository/Bookrepository.java:
a:

```
package com.library.repository;

import org.springframework.stereotype.Repository;

@Repository
public class BookRepository {
    public String getBookInfo(String bookId) {
        return "Book details for ID: " + bookId;
    }
}
```

2. librarymanagement/src/main/java/com/library/service/BookService.java:

```
package com.library.service;

import org.springframework.stereotype.Service;
import com.library.repository.BookRepository;

@Service
public class BookService {
    private final BookRepository bookRepository;

    public BookService(BookRepository bookRepository) {
        this.bookRepository = bookRepository;
    }

    public String getBookDetails(String bookId) {
        return bookRepository.getBookInfo(bookId);
    }
}
```

3. librarymanagement/src/main/java/com/library/LibraryApplication.java

```
package com.library;

import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
import org.springframework.context.ConfigurableApplicationContext;
import com.library.service.BookService;

@SpringBootApplication
public class LibraryApplication {

    public static void main(String[] args) {
        ConfigurableApplicationContext context =
SpringApplication.run(LibraryApplication.class, args);
        BookService bookService =
context.getBean(BookService.class);
        System.out.println(bookService.getBookDetails("123"));
    }
}
```

Output:

```
PS C:\Users\MANAN BHUTIANI\Documents\JAVA FSE COGNI\librarymanagement> java -jar target/LibraryManagement-1.0-SNAPSHOT.jar

  ____ _
 / ___ \| | | |
/ /   \| |_| |
\ \   /| | | |
 \___/\_|_|_|_|

:: Spring Boot ::
          (v3.1.5)

2025-07-04T11:31:25.103+05:30 INFO 9176 --- [main] com.library.LibraryApplication : Starting LibraryApplication v1.0-SNAPSHOT using Java 24.0.1 with PID 9176 (C:\Users\MANAN BHUTIANI\Documents\JAVA FSE COGNI\librarymanagement\target\LibraryManagement-1.0-SNAPSHOT.jar started by MANAN BHUTIANI in C:\Users\MANAN BHUTIANI\Documents\JAVA FSE COGNI\librarymanagement)
2025-07-04T11:31:25.107+05:30 INFO 9176 --- [main] com.library.LibraryApplication : No active profile set, falling back to 1 default profile: "default"
2025-07-04T11:31:26.117+05:30 INFO 9176 --- [main] com.library.LibraryApplication : Started LibraryApplication in 1.787 seconds (process running for 2.554)
Book details for ID: 123
PS C:\Users\MANAN BHUTIANI\Documents\JAVA FSE COGNI\librarymanagement>
```