

1) Confirm that you have the following tools installed:

- Java Development Kit;
- Eclipse for Java Developers*;
- Node.js and npm (Node Package Manager).

*It includes the integration with Maven, which is a popular build and dependency resolution tool for Java, like NPM is for JS.

2) Run Spring Boot on Eclipse by running FullstackWithMavenApplication.java

And here you can see the API response: <http://localhost:8080/users/myPersonal/books>

3) Initialize the frontend in React with the following command (it is inside this folder: frontend-react-fullstack). You can use the InitializeReact.bat for this.

4) Open the application for managing your Personal Library: <http://localhost:3000/books>

Application's Initial Page

My Personal Library

The new book has been added

Book Identifier	Title\Description		
100-7-04	Catch-22	<button>Update</button>	<button>Remove</button>
305-0-06	Lord of the Flies	<button>Update</button>	<button>Remove</button>
439-4-27	The Catcher in the Rye	<button>Update</button>	<button>Remove</button>
609-0-01	The Great Gatsby	<button>Update</button>	<button>Remove</button>
957-6-52	To Kill a Mockingbird	<button>Update</button>	<button>Remove</button>

Include Book

Architecture

- For this application, the Database is a static list in-memory;
- RESTful API is exposed using Java Spring Boot¹;
- The frontend is in React and it consumes the aforementioned REST API.

¹ It lets you create standalone applications that run on their own, without relying on an external web server. In this component, the Apache Tomcat web server is embedded during the initialization process, thus exposing the REST API.