Project 3 - Page Views in React

Late **0/20 Points**

Required Peer Reviews

2024/6/14

Attempt 1

Review Feedback
2024/6/15

Attempt 1 Score:
0/20

View Feedback

Anonymous Grading: **no**

Unlimited Attempts Allowed

Details

Deliverables:

Your [Name]BookstoreReact.war file uploaded to the CS5244 server. Use the link, cs5244.cs.vt.edu:8080/ArchiveUpload/. (http://cs5244.cs.vt.edu:8080/ArchiveUpload/) **The link and instructions on how to use it are posted on Canvas**. Once you have uploaded your WAR file to the server, check that the URL works. If it works, submit the URL here to this Canvas assignment.

Resources:

- another-bookstore-react-vite.zip (https://drive.google.com/file/d/1jw5FKU4n1LcIT973QtEXnABj2KypO1zG/view?usp=sharing)

Overview

In this project, you will implement the same two pages you implemented in the previous project (welcome page and category page). But this time you will be using the react library. React is a JavaScript library that uses multiple components to implement a Single-Page Application (SPA). A single-page application just has one HTML page (index.html). It uses JavaScript to modify that page so that it can look like any traditional web page in your application. The results will be almost exactly the same, but there will be some subtle differences. For example, instead of this in the address bar:

```
http://localhost:8080/DrMBookstoreHtml/category?name=mystery
```

We would see something like this:

```
http://localhost:5173/AnotherBookstore/category/Mystery
```

But the web page would look the same.

Setting Up the Project

Create a server application by following the steps in the ClientServer activity, but name your server app [Name]BookstoreReact.

- Complete setting up the sample project activity (https://canvas.vt.edu/courses/192345/assignments/2099642) before following the steps below.
- **Create a Project using IntelliJ**. Name the project **[Name]BookstoreReact**, in camel case with no spaces.
  - Create the client and server modules the same way as sample project activity (https://canvas.vt.edu/courses/192345/assignments/2094533) .
    - For the server module, choose the same options as instructed in your sample project activity (https://canvas.vt.edu/courses/192345/assignments/2094533) server, but make sure the application context for deployment is named [Name]BookstoreReact.

Copy the Starter Code into your own client.

- another-bookstore-react-vite.zip (https://drive.google.com/file/d/1jw5FKU4n1LclT973QtEXnABj2KypO1zG/view?usp=sharing)

Download and unzip the starter code from the link above. This unzips to a folder called "another-bookstore-react-vite". Copy the folder to a new folder called [name]-bookstore-react-client, where [name] is the name you wish to be called in this course (usually your first name). Open the client folder/project in VS Code or IntelliJ. Open a terminal and run the command "npm ci" to make sure you do a clean install of the packages.

Take some time to explore the code, using the readings from this week and the videos on React and the React router.

Transform the React code into your pages from Project 2

Some tips for doing this:

1. Fix db.json so that it has the books you want
2. Rename your book images if necessary so that they can be computed from the book title. For example, Little Dorrit becomes "little-dorrit.jpeg" or "little-dorrit.gif"
3. Fix vite.config.ts so that the base is the same as the application context from the server's run configuration
4. Add Font Awesome icon kit to index.html
5. Add global.css to src/assets
6. In Project 2, go through index.html and determine what HTML code corresponds to the React components.
7. Fix up the header component and the dropdown menu. Use the React-style links from the starer code in the header dropdown. Use React-style links for the logo also.
8. Fix up the footer.
9. Fix up the category page
10. Fix up the welcome page

Submit your Project

To submit your project, you will have to package it for distribution and upload it to the CS5244 server. **Note: The ArchiveUpload site is not ready yet. We will have it working soon.**

1. Run "npm run build" to create a build folder in your client module
2. Move all files from the build folder to the "webapp" folder in your server module (Tomcat)
3. Use a Tomcat run configuration to see if everything works
4. Under the build/libs directory in your server module, you should see a server.war file
5. Move the server.war file to your desktop and rename it [Name]BookstoreReact.war
6. Go to the **ArchiveUpload (http://cs5244.cs.vt.edu:8080/ArchiveUpload/)** page, logon with your VT user name and last 4 of your VT number, and submit the WAR file
7. Wait 5 minutes and then check if it worked by going to http://cs5244.cs.vt.edu:8080/[Name]BookstoreReact
8. Submit the URL to Canvas

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http://cs5244.cs.vt.edu:8080/JinhengBookstoreReact

New Attempt