

Project 3 - Page Views in Vue

20 Possible Points

9/28/2021

Attempt 1

**IN PROGRESS**

Next Up: Submit Assignment



View Feedback

Due: Tuesday, September 28**Points:** 20 points**Deliverables:**

1. Your [Name]BookstoreVue WAR file uploaded to the CS5244 server
2. The URL link to your site submitted here, to Canvas

Resources:

- [bookstore-vue-src.zip](https://drive.google.com/file/d/1UoA7brsW2TzlrHQ4WnrINMFsOsSQ3LaS/view?usp=sharing)
(<https://drive.google.com/file/d/1UoA7brsW2TzlrHQ4WnrINMFsOsSQ3LaS/view?usp=sharing>)

Overview

In this project, you will implement the same two pages you implemented in the previous project (home page and category page). But this time you will be using the Vue framework. Vue is a JavaScript framework that makes use of 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. Therefore, you will not *technically* be implementing two different pages. Instead you will be implementing two *views* -- a home-page view and a category-page view. 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/DrKBookstoreHtml/category?name=mystery
```

We would see something like this:

```
http://localhost:8080/DrKBookstoreVue/category/mystery
```

But the web page would look the same.

Setting

Submit Assignment

You will set up this project *almost* exactly the same way you set up the client-server project. However, instead of clicking through the defaults when you create the client, make sure you unclick the box that says to "use the default project setup", since we are going to use a custom setup. When you click Finish, the run terminal will ask you a series of questions about the custom setup.

- **Unselect** Choose Vue version (it will automatically choose Vue 2, which is what we will be using)
- **Unselect** Babel package (it is selected by default)
- **Select** the Vue router package (it is not selected by default)
- **Select** ESLint package
- Choose ESLint + Prettier
- Choose to Lint on save
- Place config in a dedicated config file

Once you've done all this, Vue-CLI will run as usual and create your project structure. After it does, make sure it runs (using `npm run serve`). Stop the server (press Control-C in the terminal), and then replace the entire "src" folder (directly under "client") with the "src" folder that I give you in the resources.

Finally, inside the "client" folder, create a JS file named "vue.config.js", and put the following inside:

```
module.exports = {  
  publicPath: "/[Name]BookstoreVue/"  
};
```

Where you replace [Name] with the name you use in all your projects (see the relevant Piazza post). This will ensure that [Name]BookstoreVue is included in your URL paths.

Now run your project, you should see something like this:

 Another Bookstore SPA in Vue - home-page

 Another Bookstore SPA in Vue - category-page

Take some time to explore the code, using the readings from this week and the following slides to help:

[BookstoreVueProject.pdf](#)

https://drive.google.com/file/d/1G9lc12l_lc1pdavKlbF29UjxTIAM9ONG/view?usp=sharing

Implement your Page Views using Vue

Now implement your page views. Your home and category pages in this project should look exactly like the home and category pages in the previous project (where you implemented them using HTML and CSS). They should behave the same also.

Submit

Submit Assignment

To submit your project, you will have to package it for distribution and upload it to the CS5244 server.

1. Run "npm run build" to create a dist folder in your client module
2. Move all files from the dist folder to the "webapp" folder in your server module
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]BookstoreVue.war
6. Go to the **ArchiveUpload** [\(https://cs5244.cs.vt.edu:8443/ArchiveUpload/\)](https://cs5244.cs.vt.edu:8443/ArchiveUpload/) page, logon with your VT user name and last 4 of your 90 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/\[Name\]BookstoreVue/](http://cs5244.cs.vt.edu:8080/[Name]BookstoreVue/)
8. Submit the URL to Canvas

I go through this process in the latest Q&A.

Enter Web URL



Google Apps



Google Assignments (LTI 1.3)



Microsoft O365

Submit Assignment