WEB701 Project Part Two

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# Introduction

For this report, I will be discussing the purpose of web frameworks, select and review two potential web frameworks and select a framework out of the two reviewed frameworks.

# Web Frameworks

A web framework is a tool that is used by developers to help with the creation web applications. The use of a framework can help reduce the development time on applications as a framework will supply a library of code. The common features of a web framework include templates like navigation bars or buttons, URL routing, Input form managing and validation, database connections, web security and session repository and retrieval. (GoodFirms.)

In the development of a web application the templates can be used to design the UI of the application. A common template that are in frameworks is a navigation bar that works on a desktop but also can be resized to fit onto mobile. If the developer were not using a framework, they would have to write the code for each part of the navigation bar individually but if a framework were used, the developer could just generate the desired template into the web application by inserting the code into the app.

Many frameworks can interact with databases using a package and also have the ability to handle URL requests.

# Proposed Frameworks for Project

## First Framework

Vue.js

The first proposed web framework is Vue.js. Vue.js is a progressive open-source framework that can be used to develop web applications for both desktop and mobile apps. This framework is used for the front-end development for applications and features reactive components and is easy to use as the templates can be inserted into the app.

Using Vue, the developer can start simple and add more tools and features as the app develops. It can be used to build components which can be connected to a html template and the data within the components is reactive so if a value within the data is changed, the component will automatically update. The framework also supports a plug-in system where the developer can drop in anything they want.

### Installing Vue.js

### Pros and Cons

## Second Framework

React

### Installing React

### Pros and Cons

## Selected Framework

# Conclusion

|  |  |
| --- | --- |
| Vue.js | Angular.io |
| Installation | |
|  | ng new angular-project  css style  angular materials  indigo/pink |
| Small files size  Not the best examples from Vue. (But does have excellent looking examples made by people but difficult to install) | Very large files size |
| Setting up | |
|  |  |
| Sets up local and network. Can view on second device. Reactive. Import whole materials library | Reactive. Import materials library (one component only) |
| **Vue.js** | **React** |
| **Installation** | |
|  |  |
| Installing Vue.js for the first time was a simple installation process and was setup and ready to begin designing within four minutes. As Vue has a reactive system, I was able to make changes in real-time without having to restart the application every change. Vue also has a network automatically setup so I can view the changes on a second device. The UI of the website was made using Vue Materials and BootstrapVue. |  |
| Vue better. Angular bigger file size. Automatic network. | |
| 1. **Register/ Login/ Edit Account** | |
| Using Auth0 | Using Auth0 |
|  |  |
| 1. **Register Products** | |
| Register on store page using form | Register on store page using form |
|  |  |
| 1. **Interactive Elements** | |
|  |  |
|  |  |
| 1. **Token System** | |
| Created automatic token generator. Plan is to link token with listing when purchasing item. |  |
|  |  |
| 1. **Server-side Database** | |
|  | |
| Firebase. | |
|  |  |
|  |  |
|  |  |
| Conclusion Here | |