

Part 1: Explore minimally 2 frameworks

1. React.js

- **What language does this framework use?** HTML and Javascript. It has a flexible library for building user interfaces and it lets you compose complex UIs from components
- **What are some benefits of using this?** React uses one way data binding which means it's faster than other frameworks. It has other aspects besides speed including flexibility, performance, and it's relatively easy to learn which helps in cases like our lab. Once set up which is a little difficult, React is very easy to implement and create with. It offers many uses and options to expand projects and ideas and is a great tool for future use. Without having much knowledge on other frameworks, I can still understand the popularity of it.
- **When would a developer use this?** React is a good option for projects that include multiple state changes that are dependent on each other because of the virtual DOM which tracks the changes and keeps it updated. It builds interactive user interfaces and web apps quickly and efficiently with less code.
- **How popular is this framework?** It's one of the top it not the top used frameworks followed by jQuery and Express.
- **Where can you find documentation for this project?** There is a "getting started" page on react that gives the documentation and now has a new quick start feature which includes live examples
- **How does this framework incorporate accessibility?** React generally uses standard HTML techniques to support accessibility of websites.
- **Where can developers find this framework's accessibility documentation?** React has a page under their docs section that gives a guide on accessibility and how React supports accessibility.

2. Django

- **What language does this framework use?** It's written primarily in Python
- **What are some benefits of using this?** Django is backward compatible which means you have the option to work with older versions and make use of its older formats and features. It's also DevOps compatible, simple, and up to date.
- **When would a developer use this?** Django is an option for projects that entail large amounts of content or user interactions and heavy traffic or projects with advanced technologies like machine learning. It's preferred for its module use that speeds up the development process greatly.
- **How popular is this framework?** It's in 9th place
- **Where can you find documentation for this project?** There is a page on documentation on 4.1 of their website
- **How does this framework incorporate accessibility?** It's vague on its accessibility

- **Where can developers find this framework's accessibility documentation?**

There's an "intro to web accessibility in django" page

Based on these observations and the in lab demo, I decided to explore and use react.js for my web application.