

Objective

This assignment served as a way for me to learn React and Go.

Front-End

- While developing the front end I ran into issues regarding state management very early. This taught me about Redux and the Flow architecture and why they are used.
- This is my first time with React after years of using Vue, and the strictly functional programming style of React was hard to get used to at first. However, it all clicked after a few weeks.
- ChakraUI was fun to use, and it allowed me to quickly build the UI without having to build the design myself. The prebuilt components were also useful. My experience with TailwindCSS tied in nicely to ChakraUI's style props.

Problems Faced

The front-end was mostly smooth sailing for me. I ran into some minor issues with TypeScript's verbose typing system, as I was used to JavaScript.

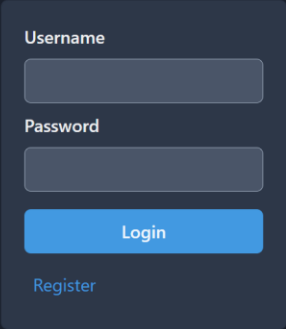
Back-End

- This was my first time with Go, which I had planned to learn during the holidays anyway, so the assignment served as a way for me to practice it on a real project.
- Go was hard to learn and sometimes more verbose than I was used to coming from JavaScript, but I pushed through it and it worked out in the end.
- GORM was useful at first but quickly became a pain as it became more unwieldy as my queries became more specific. I ended up writing a lot of raw SQL anyway. The automatic migration that GORM does was still useful however.
- I chose Postgresql as my database as I was comfortable with it and its tools.

Problems faced

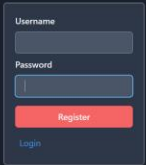
- I ran into issues with Gorm's API due to its poor documentation.
- In the end I opted to write raw SQL for some of the more complicated queries as I thought my raw sql would be more efficient than the layers of abstraction that GORM required for more complex queries.
- In the end I realized that writing raw sql would have been easier from the start, and I should have just used GORM for its database migration features.

User Manual



A login form on a dark blue background. It contains two input fields: 'Username' and 'Password'. Below the 'Password' field is a blue 'Login' button. Below the 'Login' button is a blue 'Register' link.

Enter username and password to login



A register form on a dark blue background. It contains two input fields: 'Username' and 'Password'. Below the 'Password' field is a red 'Register' button. Below the 'Register' button is a blue 'Login' link.

Enter username and password to register

