

CVWO Assignment

Milestones achieved in this assignment and thoughts

1. Learning React Hooks

I was glad to be given a reason to relearn React as this is a two-month assignment. React Hooks is introduced recently in version React 16.8. Although I knew how components and classes work, I wanted to code out in the latest version and adapt to the new changes made to React. Learning the React Hooks was not difficult at all. It was fulfilling to code the same functions with lesser lines.

2. Learning Ruby on Rails

For the mid-submission, I initially wanted to learn Go for this project. I thought it was more relevant to the current industry. However, as I was looking through the notes for Go, I realized that there was a steep learning curve. I have spent a week learning the language, thus I figured I lacked sufficient time to continue learning Go. Therefore, I looked into Ruby on Rails. As Ruby on Rails has an MVC framework, I picked Ruby on Rails in the end.

3. Adapting Material-UI library

For the mid-submission, I initially wanted to take a challenge to use Ant Design Pro UI library. However, I realized that as I started from the template, there were many files that were included that I did not like to have. I also could not grasp the library well enough to utilize it within a few days. In the end, I adapted the material-UI library instead.

4. Users and todos features

I managed to set up the back-end on Ruby on Rails with JWT token authentication and authorization. Todos are only restricted to users that they belong to. Their APIs can only be accessed with a JWT token, otherwise, an error will be thrown. Users have each JWT token which is stored in local storage and used to ensure that they are logged in. I felt that the JWT token implementation may be flawed as I did not implement Refresh Tokens. I also read up online that storing JWT tokens in local storage may not be safe for users. I felt that these are the improvements that can be made in the future. I did not manage to implement Auth0 due to time constraints but I will consider exploring that in

the future. Other than that, I will like to add more features for the todos and gamification in the future too.

User manual

Hosted application

Hosted back-end: <http://todo-backend-yuting.herokuapp.com>

Hosted front-end: <http://notly-todo-app.herokuapp.com/>

There are latency issues with regards to the hosted application as it's on free service.

Would advise to set up locally instead :(

Local Setup

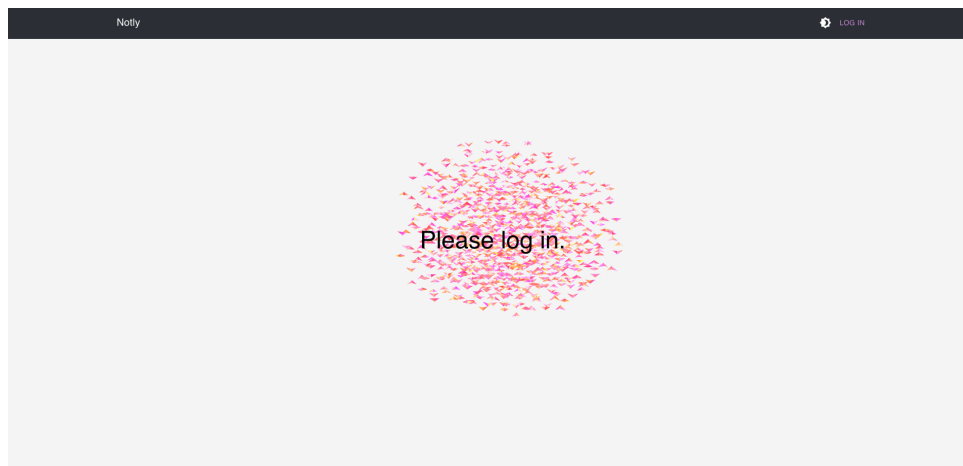
Fork the repository: <https://github.com/Jillzyt/cvwo>

1. Back-end (Instructions over [here](#))
2. Front-end (Instructions over [here](#))

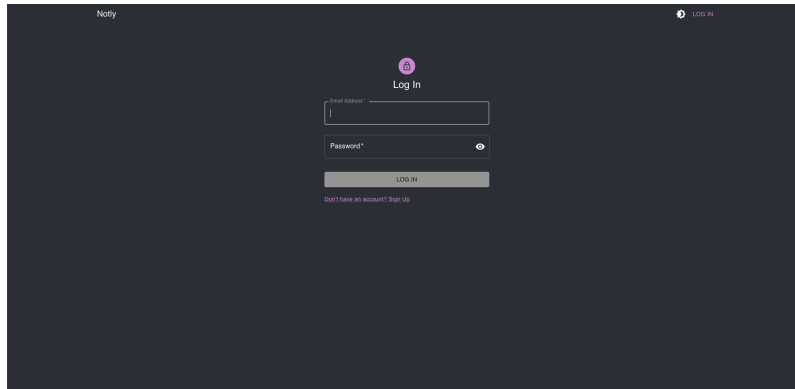
Manual

1. Login

- a. Click on the login button

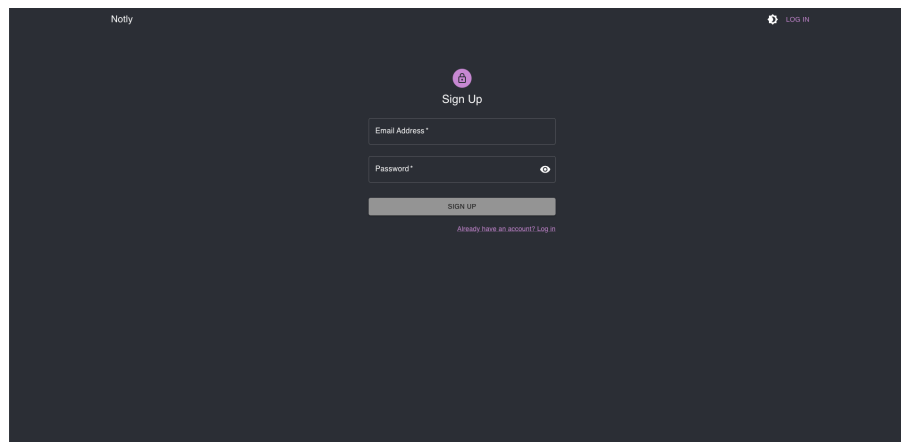


- b. Login with credentials



2. Sign up

- a. Click on the signup link from the login page to access this page, create a new account with email and password.



3. TodoList

