M5.12 Team Deliverable 4: Sprint 1 - Caleb Jones' Individual Reflection

COSC540 - Advanced Software Engineering

Team - Crack Those Macros

Github Repo - Link

Members:

Caleb Jones, Alexander Paredes,

David Batista, Nicholas Dubauskas, Cole Dombrowski

Sprint 1 - Caleb Jones' Individual Reflection

What you planned to do

- Story: Initial Project Setup
    - Description: As a developer, I want to build a full stack application, such that the foundation is initially set up
- Story: User Object Creation
    - Description: As a user, I would like to have a unique profile, so that all my information is stored
- Story: User Login Setup
    - Description: As a user, I would like to login, so my session is secure

What you did not do

- All assigned tasks, stories and issues were resolved by the end of the sprint

What problems you encountered

- Some initial problems arose from configuring the database with the backend portion of our web application
    - This was resolved by working alongside Alex and Cole who were helping instantiate the database.
- There were some minor issues utilizing and authenticating with Flask which was the chosen technology for the Python backend

Issues completed

- Story: Initial Project Setup
    - Description: As a developer, I want to build a full stack application, such that the foundation is initially set up
- Story: User Object Creation
    - Description: As a user, I would like to have a unique profile, so that all my information is stored
- Story: User Login Setup
    - Description: As a user, I would like to login, so my session is secure

Files you worked on

- crack-those-macros\backend\server.py
- Committed template files for the frontend - some included template files from “npx create-react-app”
    - crack-those-macros\frontend\src\index.css
    - crack-those-macros\frontend\src\index.js
    - crack-those-macros\frontend\src\App.js
    - crack-those-macros\frontend\src\App.css
    - crack-those-macros\frontend\public\index.html

What you accomplished

- **Initial Project Setup**: It was my goal for this sprint to get the team setup with an initial base repo so everyone can add their files to it without any conflict. The team decided on a

Python Flask backend with a ReactJS frontend. So the associated project was created with those technologies and committed to Github

- **User Object Creation:** The User object does extend “UserMixin” which is an import from “flask_login”. I also created values that are unique to our use case. We are working on an initial survey form that the user will have to fill out if it’s their first time logging in. So our User object at this time consists of the User.id = Username, User.password = password, and User.is_first_login = True or False. The account creation endpoint class the database to check if the username exists otherwise, it will create a new user within the database. More attributes will be added overtime.
- **User Login Setup:** The decision was made to import flask_login to assist with some of the standard login type methods such as “login_user()” and “current_user.is_active”. I implemented our own functionality to check during login if the password that was entered matches the password of the related username from the database. If true then I return the user for future use by the frontend.
- Testing was accomplished utilizing Postman to call all the endpoints and ensure they are returning the proper responses that I mapped for them.
- By the end of Sprint 1, I created a functional backend implementation of a User Object and Login.