CVWO AY2024/25 Final Writeup

Name: -

Matriculation Number: -

Github Link: https://github.com/kailermai/Threadly

Reflection

Embarking on this project without prior knowledge of React TypeScript and Golang made creating a web application from scratch a challenging yet fulfilling experience. Through online tutorials and hands-on practice, I gradually developed an understanding of how React TypeScript differs from traditional HTML, CSS, and JavaScript, and learned to use Golang for setting up backend APIs. This winter assignment has sparked my interest in full-stack development, and I am excited to explore this field further.

As a first-time user of this tech stack, there are several areas where I see room for improvement. One key issue was the organisation of my frontend code; many components were crammed into a single file rather than being modularised into separate files, which made the structure messy and harder to manage. Additionally, the design of the frontend was basic and lacked originality, relying heavily on default styles from React. I also used inconsistent methods for connecting the frontend and backend, alternating between axios and native React approaches for API calls. Lastly, my code documentation was minimal, which could hinder future collaboration or maintenance.

Looking ahead, I aim to enhance my skills by exploring component libraries like Material UI to create more visually appealing and functional interfaces. I also plan to focus on writing cleaner, more modular code and improving my documentation practices to ensure better maintainability. This project has been a valuable learning experience, and I am motivated to continue refining my abilities in full-stack development.

User Manual

Creating an Account and Logging In

1. **Access the Registration Page:**
   - On the navigation bar, click the 'Register' button.

2. **Create an Account:**
   - Enter your desired username and password.
   - Click 'Sign Up' to register your account.

3. **Log In to Your Account:**
   - After signing up, you will be redirected to the login page.

- Enter your registered username and password and click 'Sign In'.

4. **Navigating as a Logged-In User:**

   - Once logged in, the 'Sign In' and 'Register' buttons will be replaced with a 'Log Out' button.

Note: Users must be logged in to view threads, create posts, or leave comments.

Using Threadly Features

Browsing and Searching for Threads

1. **View All Threads:**

   - Once logged in, the homepage displays all available threads, as well as a front page displaying announcements from the administrators.

2. **Filter Threads by Tags:**

   - Use the dropdown menu at the top of the page to filter threads by tags (e.g., Internships, Projects, Miscellaneous).

3. **Preview Threads:**

   - Each thread shows a preview of its content (up to three lines).

   - Click the 'View Post' button to read the full post and view any associated comments.

Creating and Managing Posts

Creating a Post

1. **Access the Post Creation Page:**

   - Click the 'Create Post' button on the forum page.

2. **Provide Post Details:**

   - Enter a Title, select a Tag, and write the Content of your post.

   - Click 'Submit' to publish your post.

3. **View Your Post:**

   - After submission, you'll be redirected to the page displaying your full post.

Editing a Post

1. **Edit Your Post:**

   - Navigate to the post you want to edit.

- o Click the 'Edit Post' button to make changes.

2. **Save Changes:**

    - o Once edits are complete, save the post to update it.

Deleting a Post

1. **Delete Your Post:**

    - o Navigate to your post.

    - o Click the 'Delete Post' button.

2. **Confirm Deletion:**

    - o A confirmation prompt will appear. Confirm your action to delete the post.

Creating and Managing Comments

Creating a comment:

1. **Provide Comment Details:**

    - o Enter the comment in the box provided

    - o Click 'Submit' to publish your comment

Editing a Comment

1. **Edit Your Comment:**

    - o Navigate to the comment you want to edit.

    - o Click the 'Edit' button to make changes.

2. **Save Changes:**

    - o Once edits are complete, click 'Save Changes' to update it.

Deleting a Comment

1. **Delete Your Comment:**

    - o Navigate to your comment.

    - o Click the 'Delete' button on the right of the comment.

2. **Confirm Deletion:**

    - o A confirmation prompt will appear. Confirm your action to delete the comment.