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CVWO Assignment: Gossip with Go/Rails, Final Write-up

Accomplishments

I created a CRUD application using a React frontend and a Ruby on Rails backend. The frontend uses MUI for styling and TypeScript. The backend uses SQLite relational database. I used Git to maintain my code.

The forum contains paginated posts that are sorted by date, with newer posts in front. The forum contains some pre-generated fake data, to simulate how it could look like with many posts and comments.

The forum application has the following features:

- Account-Based Authentication
- CRUD operations on forum threads and comments
- Tag system to categorise threads
- Search system to search for forum threads based on their tags
- Validation for input fields

From this project, I learnt how to better manage a project of this scale, through planning and prioritising more important features, adding documentation to code, and being consistent with my coding style. I also learnt various technologies and frameworks like Ruby on Rails, React, TypeScript, SQLite, Git.

User manual

The application can be set up using the instructions found in the README file. The following user actions are what a user can do, which are based on their authentication status.

User actions that are not dependent on authentication status:

- To view a post, click on the ‘view post’ button.
- To view a profile, click on the profile name.
- To return to the main page, click on the ‘Gossip App’ name.
- To search by tag(s), key in the relevant tags found in the list, and click on the search icon or press enter to search.
- To search a tag, click on the tag chip in the post, which would direct the user to the search results page for that tag.

User actions when not authenticated:

- To login/register, click on the login button on the top-right-corner, which would direct the user to an authentication page.

User actions when authenticated:

- To create a post, click on the profile icon button on the top-right-corner, then click the ‘New Post’ button.
- To create a comment, enter a thread and create a new comment using the comment card provided directly below the post.
- To update or delete a post/comment, click the edit button found on the post, which would direct the user to an edit page.
- To update the user’s profile, click on the profile icon button on the top-right-corner, then click the ‘Update Profile” button.