StackedFeatureOverflow

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PROJECT OVERVIEW & FEATURES

Our project aims to combat the following three issues present in FakeStackOverflow: accessibility, moderated forums, and secure APIs and authorization. In our first user story, we enhanced accessibility through implementing the screen reader, style presets, darkness and warmth toggles, and descriptive symbols to help communicate information better. In our second user story, we created moderators to manage content, added polls with notifications, and allowed for upvoting and downvoting messages. In our third user story, we secured API endpoints with Swagger, provided multiple stronger ways for users to authenticate themselves, and made API requests rate-limited.

FUTURE WORK

In the future, we would like to further improve the user experience for StackedFeatureOverflow. For user story 1, we'd like to allow users to select a sentence/portion of the page for the screen reader to play. For user story 2, we want to allow users to mark a message as unread after clicking it to mark it as read. For user story 3, we want to gradually increase the amount of time users are frozen out of their accounts (1 minute, 5 minutes, 30 minutes, etc) as the number of incorrect password attempts increases.

TECH STACK & DESIGN

We developed StackedFeatureOverflow as an extension of FakeStackOverflow with the starter code given in the Fundamentals of Software Engineering course. The accessibility features can primarily be accessed on the profile settings page (adjusting style preset themes, light/dark, and warmth, as well as text size). Users can utilize the enhanced chat, moderator, and message features in the chat pages. Additionally, the security features can be seen in the login and sign-up pages, but a lot of the implementation was backend improvements (storing/hashing passwords, protecting routes, etc.).
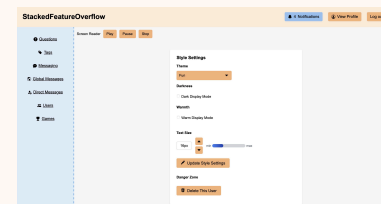
This is the fun-dark theme's profile page, where users can adjust the style settings in regards to colors and text.
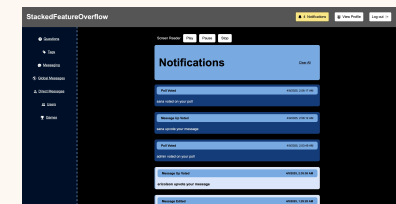
This is the notifications page, where users can mark notifications as read.