

CS4530 Final Project - Group 408

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New Feature Implementation:

Our main feature enhances **accessibility** and **usability** by allowing users to switch between light and dark modes, adjust font sizes for eye comfort, and access AI-powered thread summaries using the Hugging Face API with real-time updates via WebSockets.

Background:

- Gen Z averages 9 hours of screen time per day, and with increased screen exposure, individuals become more susceptible to eye strain.
- Around 88% of adults over 65 (in the United States) use the internet. Thus, to be inclusive to an aging population, it's important to provide a means to increase content size to view web pages
- As attention spans shrink due to short form content (on platforms like TikTok and Instagram), it has become increasingly difficult to retain Gen Z's attention. To address this, we added an AI thread summarization feature.

Technology Stack:

To implement our front-end features, we used TypeScript to build custom hooks and components and used React for the user interface. For our AI Summarization feature, we continued using React and integrated the Hugging Face API to generate summaries of thread content.

Future Implementation:

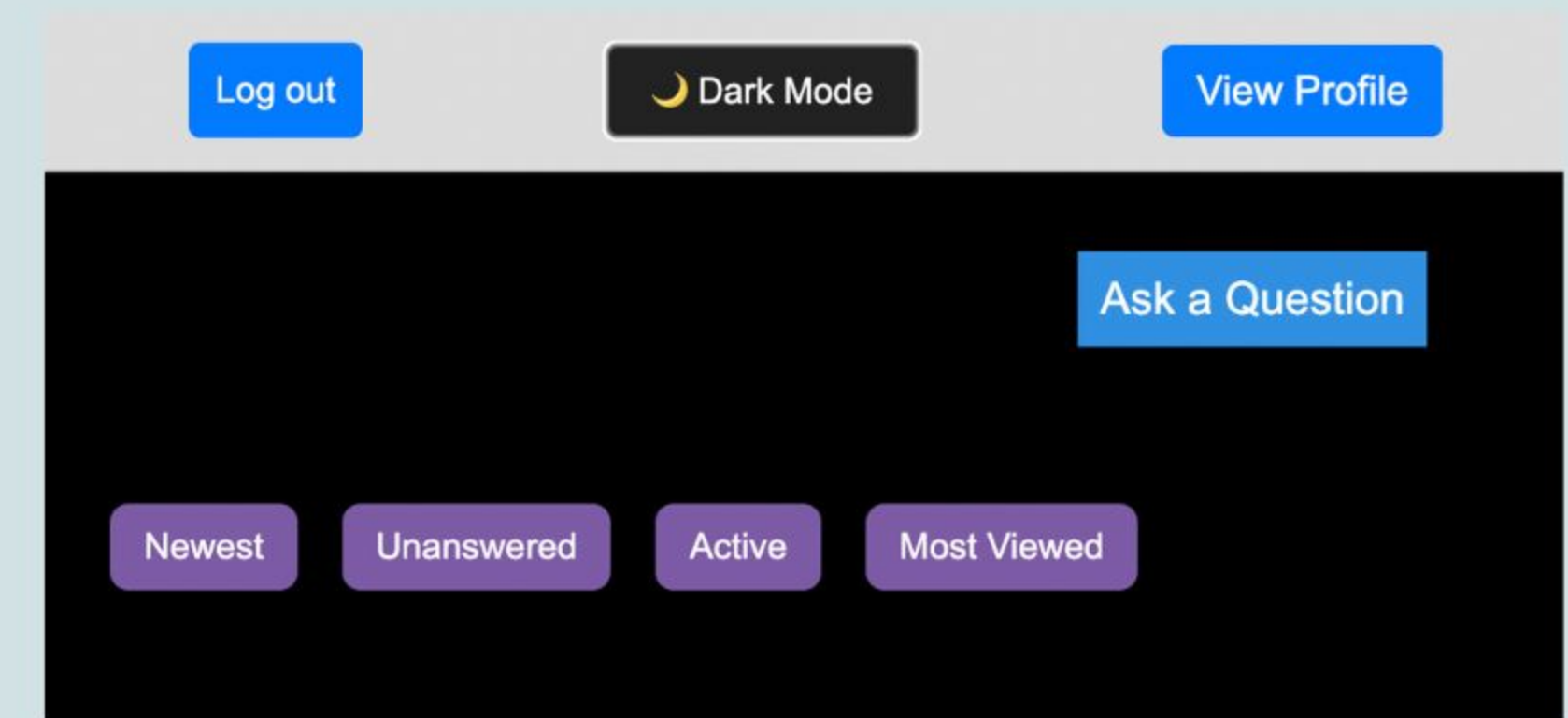
As a group, we enjoyed the idea of implementing AI into our site, and we would like to further this thought by adding Smart reply suggestions to the direct messaging feature using the same API we used for our previous feature. Also similar to the summary feature we included in the thread, we would also like to incorporate message summarization.

Public Demo Site:

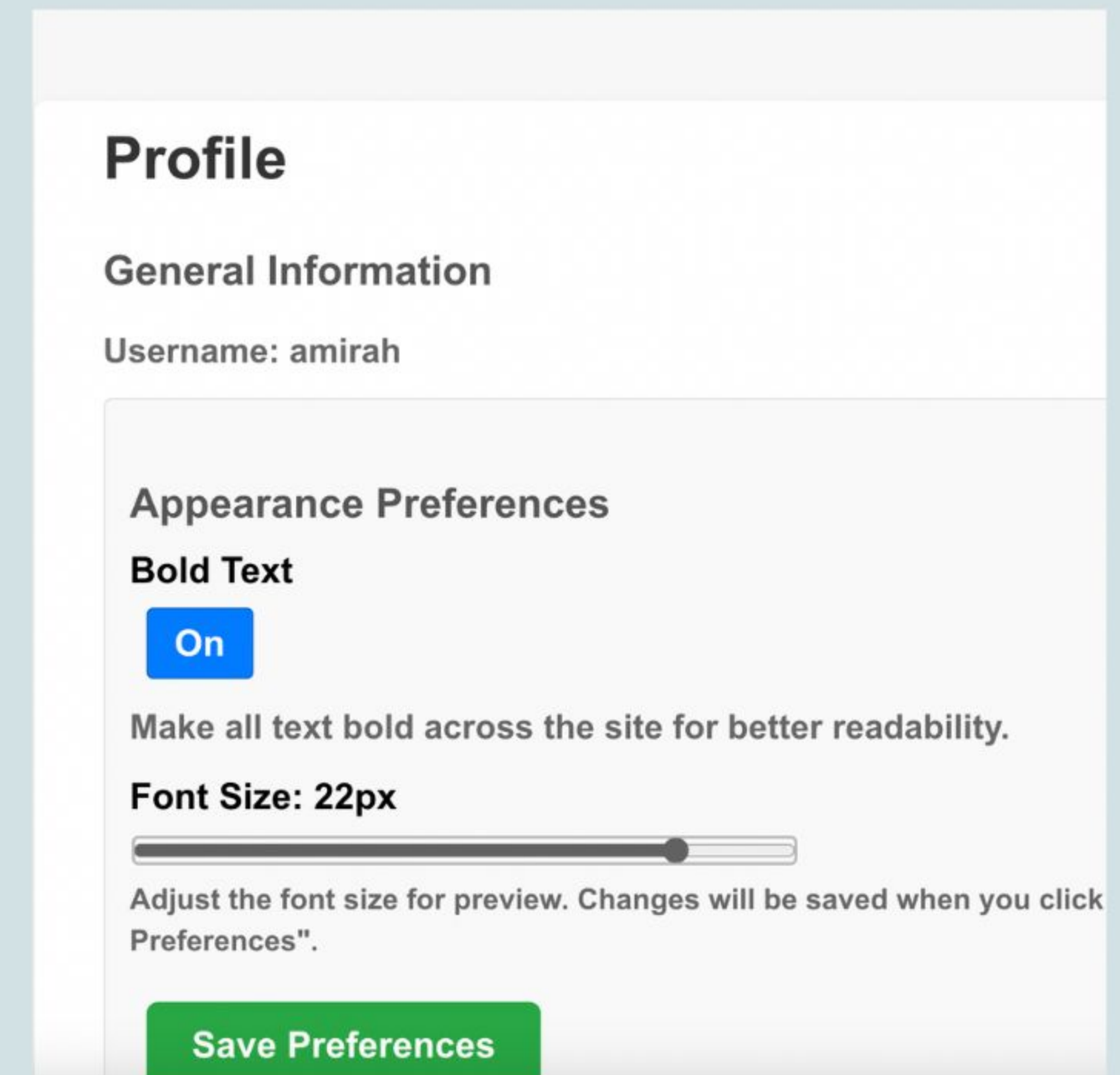
<https://cs4530-s25-408.onrender.com/>

Source Repo:

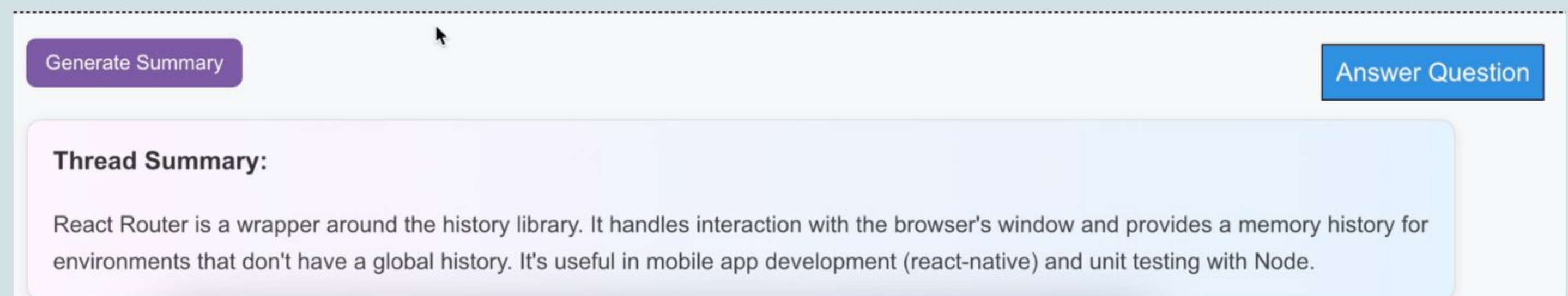
<https://github.com/neu-cs4530/spring25-team-project-spring25-project-group-408>



Dark Mode Toggle Button



Font Size Slider & Bold Text Button



AI Summary of Thread Generated by clicking on 'Generate Summary' Button