

Our Additions to FakeStackOverflow

Our task for the final project of software engineering was to make several improvements according to user stories of what a user might want to see in an improved version of the website given to us, FakeStackOverflow. Our improvements included a short-form video content page, an accessibility section, and a fully site-wide notification tab. On top of all of these, there is additionally a UI overhaul to give the website a more modern feel.

- Short Form Video Content

- The new video page contains the ability to infinitely scroll with dynamically loading videos, likes, and favorites. Each user has the ability to follow any other user, which will algorithmically tailor the video feed. Everyt

- Accessibility

- The accessibility section can be seen embedded throughout the site. In the settings page, a color filter can be chosen, which applies to the entire website. On the main question page, the questions can now be chosen through keyboard shortcuts for efficiently navigating the website. Any question, answer, or comment is able to be read out loud at the push of a button, either through keyboard shortcut or icon.

- Notifications

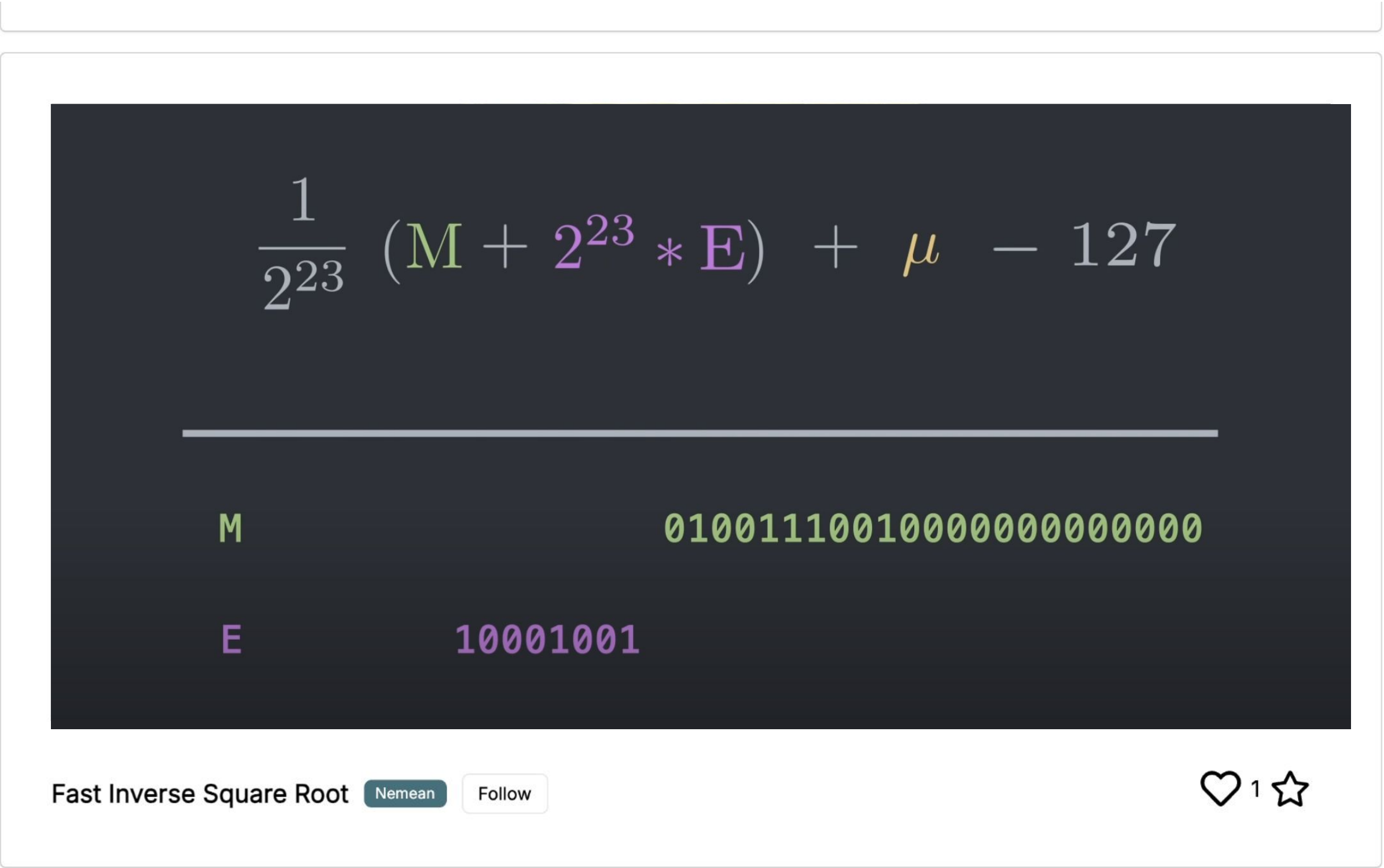
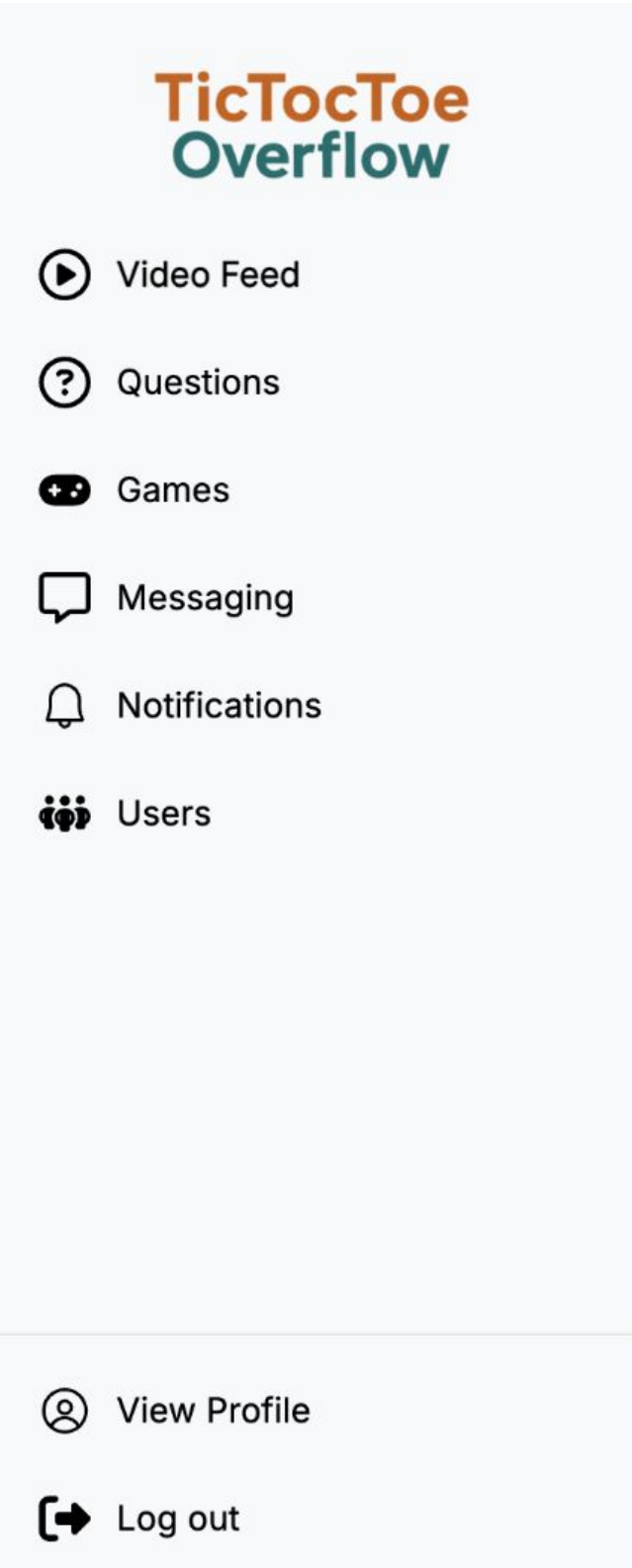
- Notifications are pushed to specific users and can be seen in the header tab. There’s an indicator for unread notifications, and specific notifications can be clicked to navigate to the source of the ping.

Live DEMO is being hosted at:

<https://cs4530-s25-105-frontend.onrender.com/>

Our source code can be viewed at:

<https://github.com/neu-cs4530/spring25-project-group-105/>



- Technology Stack and Design Decisions

- Our stack contained React and Node.js along with Firebase for the storage of the videos and MongoDB for the user-related metadata. On the frontend, we used Tailwind CSS and shadcn/ui to modernize the website. We made our decisions effectively using agile practices such as sprints to make sure our work was scheduled and achieved

- Future Work

- Future work would start by completing our user stories that we deemed as extensions, such as speech to text and commenting on videos.. We would then expand to try and implement a more engaging algorithm possibly developed using AI. Some backend future work could include caching and preloading videos to enhance performance, as well as integrating Cypress for UI testing.

