2021-09-09 Meeting notes

Date

09 Sep 2021

8:00p.m. - 11:30p.m.

Participants

- @ Tian Hui
- @ Zhen Cai

Goals

- Implement real-time notifications.

Discussion topics

	Item	Notes
1	STOMP sockets	
2	Discuss logic for real-time	When a page is mounted, the frontend connects to the backend via sockets and disconnects when the page is unmounted. Both require the submission of a user id. When the backend receives a user id from a socket, it responds with the number of unread notifications. Also, from time to time, backend actively pushes new notifications to frontend, once the receiver's frontend leaves the communication channel open. When a user clicks the notification button, a dropdown appears, and the frontend goes to `/notification/fetch`, if the backend returns a number other than 0. After retrieving the notifications, the backend will delete them from the database. The frontend caches newly fetched notifications and renders them all from local storage. The number of local notifications will be displayed next to the notification button. A user can mark notifications as read, which causes the marked item to be deleted from local storage. When a user logs out on the frontend, the frontend also disconnects the socket for the current page with the backend, then it posts and tells backend that this user logs out. If the user opens more than one page, the backend will close all communication channels between itself and (all of) the user's pages.