

2021-09-11 Meeting notes

Date

11 Sep 2021

4:00p.m. - 7:30p.m.

Participants

- @ Tian Hui
- @ Zhen Cai

Goals

- Controller authentication.
- Implement real-time notifications.

Discussion topics

	Item	Notes
1	Pair coding	
2	Parse user id from JWT token	Prevents a logged-in user from changing the information of another user by using that user's id.
3	Further discuss logic for real-time notification	<p>The frontend sends an HTTP GET request to <code>/notification/connect</code> with the authorisation token present in the header every time a page is mounted after login. The backend then parses the token for the user id, returns a collision-resistant random path, such as <code>Xyl8ajJA4Hk9OekowUbLCgYg0nJam</code>, and updates a subscription map: <code>{<userId>: [<path1>, ...]}</code>.</p> <p>Now that the path has been received, the frontend connects to <code>/candh-crm-websocket</code> in backend, and subscribes <code>/topic/notification/Xyl8ajJA4Hk9OekowUbLCgYg0nJam</code>.</p> <p>Following that, after the frontend sends user id to <code>/app/notification/unread</code> via sockets, the backend responds with the number of unread notifications. In addition, if the communication channel is not closed, the backend will actively push new notifications from time to time.</p> <p>When the page is unmounted, the frontend disconnects.</p> <p>When a user clicks the notification button, a dropdown appears, and if the backend returns a number other than 0, the frontend GETs <code>/notification/fetch</code>, with the authorisation token present in the header. The backend will delete the notifications from the database after retrieving them.</p> <p>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.</p> <p>When a user logs out, the frontend should post to <code>/logout</code>, with the authorisation token present in the header. This tells backend to remove all subscriptions of the user. The frontend should then delete all notifications from local storage.</p>