

Husky On-Toilet Network

By Kwun Ting Lin, Kai Yang Huang

Poop happens -- to everyone. The act of pooping has both physiological and psychological effects that feel pleasurable. A healthy gut contributes not only to your body's well-being but also to your mental state. Scientific studies have shown that pooping causes stimulation in multiple nerves and relaxation of muscles which results in feeling of pleasure.

For some people, running to the toilet is the first thing in the morning. However, before everything was done virtually, the morning routine was a lot more tense, in about 5 minutes. Now that people are in quarantine, our time at home became less restricted, and being on the toilet no longer is a rush.

During this 10 minute span of sitting on the toilet, we want to help students connect to each other. At the same time, due to the potential risk of hemorrhoid, our app also has reminders at different intervals.

Project walk through:

<https://www.youtube.com/watch?v=zx1WldvkpNc>

Login and Register:

https://www.youtube.com/watch?v=1pLnm6K_FEA

GitHub:

<https://github.com/KwunLin/Husky-On-Toilet-Network>

IMPLEMENTATION

We have barely zero mobile app development experience and React Native experience before the Hackathon, and we want to learn some of those techniques during this event. Due to the time constraints, we didn't finish all the details of our app.

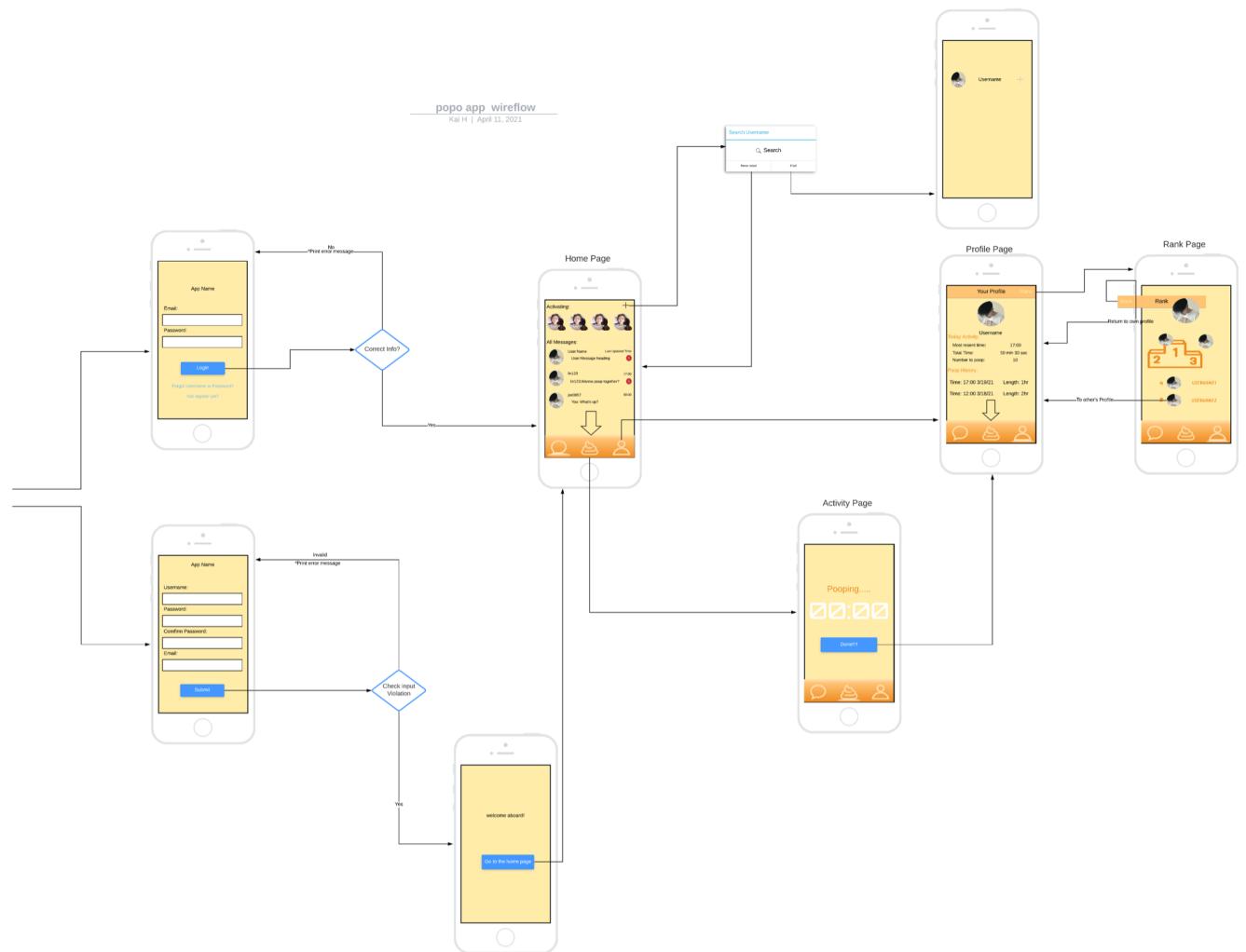
1. The draft (Brainstorming) :

https://docs.google.com/document/d/1xxVycseDaMiWI8q9xi4HbdBMjTnd_iAxbrLfI2DmNXk/edit?usp=sharing

2. Wireframe: We create a wireframe from scratch and simply define some basic function we need in this app. The original UI design and some functions we planned was abandoned.

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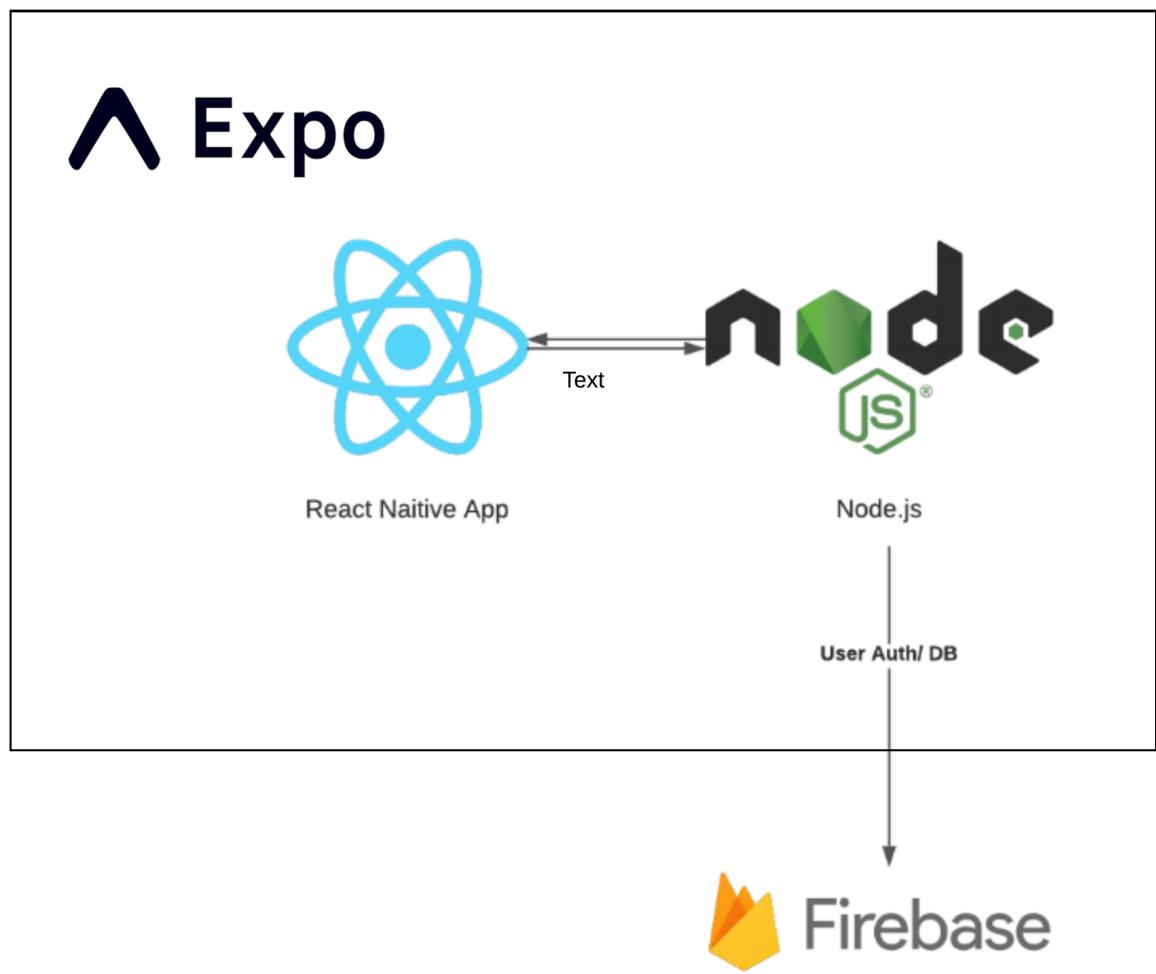
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3. Soft Arc: We decide to use react native as our front-end tool, and node.js for our runtime environment. We use Expo to accelerate the development process. Using firebase SDK to handle user authentication and real time databases.

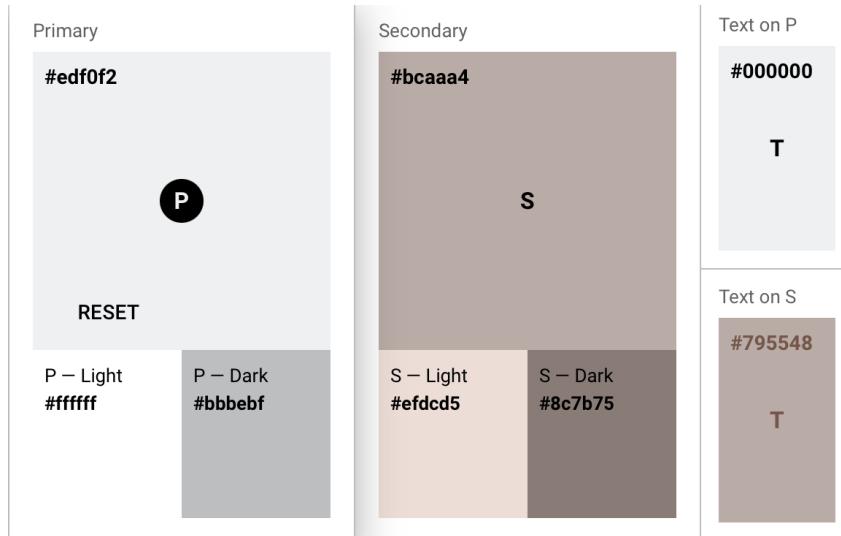


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4. Graphic design:

- Color Set:



- Graph (Hand made):

- Husky (Sponsored by Tiffany He):
 - Icon



- Normal state



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- 5min state



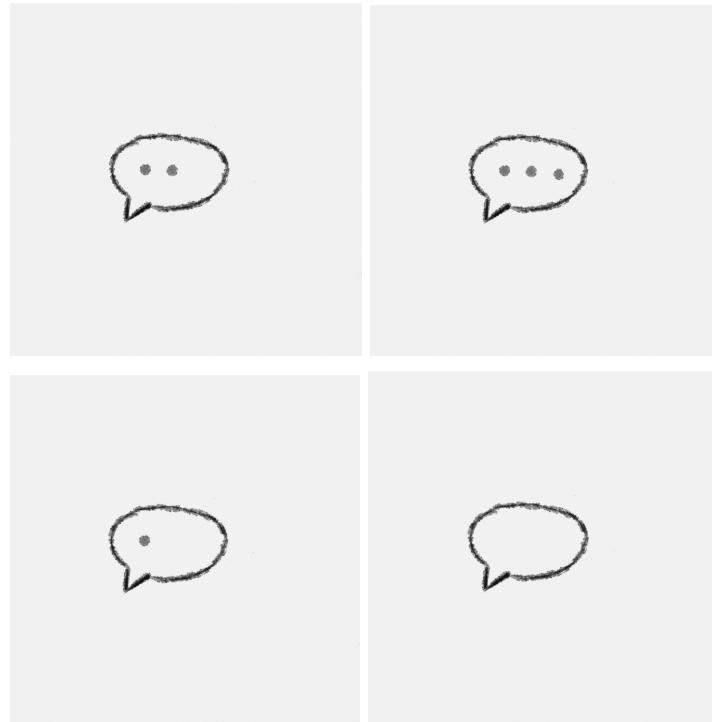
- 10min state



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- Dialog box (Sponsor by Kai)



ISSUES

Bugs

1. Currently, we are having issues with displaying usernames on the chat screen, as we try to pull data from the Firebase but encounter some API bugs.
2. The message function should disable while the user is not on the toilet, but it is not functioning in this way.
3. Expo having an issue to publish our app via iOS,
4. In the register page, the soft keyboard covers the screen component, which is not a good experience.
5. The animation emoji should disappear after it finishes, but it sometimes returns to its initial position.

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6. The husky image on the main page is not consistent , so it affects the position of the switch.

Future works

1. Fix bugs we currently found .
2. Add user avatar upload function.
3. Users will be able to add Major and Year information to their profile. On the chat screen, majors will be displayed under the username, and use different profile colors to represent freshman, sophomore, junior or senior.
4. Publish our app.
5. Make the message disable while the on toilet switch switches off.
6. Add more inserting functions, such as one-to-one user communication.