Project Status Report 6

Group 4

Calm Chores

Software Engineering
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CS673

Keshav Saraogi
Chun Qin Huang
Anup Sindagi
Xiaoyue Zhang
Fernanda Nano

1. **App Development [Anup, Fernanda, and Chun]**—Last week, we mainly worked on implementing the profile page. This screen is divided into two parts: the Rating part and the profile information card. For the latter, we added an editable form to change the user's display name. With this, the user can see their name instead of email across the app screens and task info. The display name is also stored in the cloud using Firestore db.

   The rating part is further divided into two components, a dropdown to select the user and the rating component for the selected user. We first implemented the dropdown, which pulls the selected user info. Once the user is selected, we search through all the completed tasks by the user or the missed tasks by the user. We calculate the rating based on how many tasks the user completed which were assigned to them, how many of the tasks were completed past the due date, and how many of them were completed by other users. If the user completes a task overdue, he gets half the point, if he misses the task, a point is reduced from the score. If a user completes extra tasks, he gains 1 extra point. So the final score can range from 0 to infinity. We implemented 3 ranks based on the score. We implemented a new component that animates the score of the user on a gauge like a speedometer.

   We later worked on vacation mode, the UI component was implemented in the home screen but the functionality is yet to be implemented. We also fixed real-time updating bugs between different users, now the app can update all the tasks in real-time and all the users have access to the most up-to-date tasks list.

2. **QA/Testing [Keshav and Xiaoyue]** - Last week, Keshav looked at researching the testing libraries and the components to test for the functionality. I believe React Testing Library should work fine when it comes to testing for the majority of the testing functionality and should create reports that should display multiple code coverages. Having looked at the different functionalities of the code base, I spend most of the time working on planning and researching about how to complete the code functionalities and planning what the unit tests should look like. I also spent some time about learning about the React Testing Library as it is a new framework and took some time to familiarise myself with the library. Xiaoyue spent the last few weeks mostly writing testing code for the main branch after completing the merge.We mainly use Jest to test all code files. The main dependencies are "@testing-library/react", "@testing-library/react-native". With the --coverage directive outputting the test coverage of the file, we were able to track the progress of our tests.

TEAM MEETING DISCUSSIONS: on Discord

MONDAY 18th November 2024: Everyone joined the meeting and updated their parts, we relayed what was suggested by the professor regarding the backend and frontend integration issue and we dropped the backend branch development. We discussed how to carry forward the development and testing going forward considering the changes in the development approach for the app.

MONDAY 25th November 2024: During this meeting, we had a detailed knowledge transfer for the backend team from the frontend team, we discussed the architecture, layout, and other aspects of the app for the transition from backend to full app development. We discussed the changes in personnel for the teams, and we divided the further teams into the App Development team and QA/Testing team. QA team and App dev team, we discussed how to go about testing for the existing functionality of the apps and came up with a timeline for testing coverage. We created a pull request and merged the frontend branch with the main branch.

Task Assignment and Deliverables:
1. App Development - [Anup, Fernanda, and Chun]:
    I. Priority Tasks:
        a) Implement the Vacation mode functionality, when it is turned on it should put people off the autorotation queue.
        b) Work on bill remainder screen and functionality for the home screen
    II. Additional Tasks:
        a) Fix all the bugs that are notified during the testing
        b) Work on the landlord mode, implement all the different screens and functionality for the landlord mode

2. QA/Testing - [Xiaoyue, and Keshav]:
    ● Priority Tasks:
        ○ Implementation of the unit tests covering the majority of the functionalities for the UI and the Firestore.
    ● Additional Tasks:
        ○ Find and fix bugs during testing.

GitHub group project repo:
https://github.com/saraogi-keshav/calm-chores/tree/main