Project Status Report 4

Group 4

Calm Chores

Software Engineering
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CS673

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1. Frontend - [ANUP and FERNANDA] - We worked on the restructuring of the Home screen and Tasks screen, for the previous demo, it was not structured correctly for syncing the data between the users. We restructured the firestore collections to include the main "house" collection and then added the tasks collection to that. By doing this, we are now able to sync the tasks between the users in the same house. We also had to add a new screen for "add house" which would feature various fields for the house settings and information. Now the user is able to either Join a house or create a house from scratch. We then modified the tasks screen to update the tasks based on the selected house. Once the functionality was implemented, we styled and arranged the components neatly to make them look more presentable.

2. KESHAV and CHUN - Throughout the past week, we worked on updating the API and Schemas with different features. Keshav worked on the feature "Vacation Mode" that allows users to switch amongst themselves the responsibilities in case of a break required. Chun worked on adding the tenants into the house by the landlord and the landlord would have a list of the houses they have added to the app. The landlord would be able to edit the tenants within the housing unit.

   We also had a discussion about refactoring our code base with a few pointers in mind, including segregation of files. We also talked about how the integration of the frontend will have us refactor our code with the Firebase application. Throughout our discussion, we came up with a plan and within the next Project Status Report, we are confident that we will have begun our refactoring.

3. XIAOYUE - Over the past week, I have used Google Cloud to deploy the backend API for testing by the frontend staff. During the deployment process, I have also identified and reported several environmental issues to the backend staff. I have added dedicated firewall rules to the server to ensure the security of the server and data and to block unauthorized external access as much as possible.

TEAM MEETING DISCUSSIONS (MONDAY 28st October 2024): on Discord
Everyone provided their updates and discussed our last week's deliverables. We discussed and decided to prioritize the deployment of the backend API so it would be easier to test and work on the frontend with the intended structure. Both the frontend and backend personnel discussed with Xiaoyue about the issues he was having with testing the code, and decided further one-on-one to help fix those issues to move forward with testing of the code. We worked on the Software Design Document of the project and everyone provided feedback on the draft and final document.

Task Assignment and Deliverables:

1. Frontend - [ANUP and FERNANDA]:

   a) Priority tasks:

       i. Adding a Task Info screen, which would enable the user to modify existing tasks.

       ii. Adding more features to create-task screen, to have a repeat option, task description, and selecting users and able to rotate between users for repeat tasks

       iii. Modify the home screen to display all the users, and modify the profile screen to display user ratings once the tasks are completed

   b) Additional Tasks:

       i. Once the backend API is deployed, modify all the existing UI code to work with the backend API

       ii. Style the components of the priority tasks once completed.

       iii. Implement the vacation mode in the user profile screen

2. Backend - [KESHAV and CHUN]:

   a. Priority Tasks:

       i. Modify the schemas as needed.

       ii. Try and complete the API and DB functionalities.

       iii. Begin Refactoring of the code base as required and segregating the code into different files, instead of having a large schemas file for all the schemas

       iv. Debug

3. QA - [Xiaoyue]:

   a. Priority Tasks:

       i. Test the cooperation of the frontend and backend interfaces.

       ii. Write unit tests for the new pushed parts.

GitHub group project repo:

https://github.com/saraogi-keshav/calm-chores/tree/main