COMP3004 Delivery 4

Team Name: Happy3004

Project Name: The Caf Calorie Tracker

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Implemented functionalities

a) Authentication

Users are able to login with an existing account or register for a new account. The Caf Calorie Tracker also supports external API login using Google Account. If a user logins as a new account, The Caf Calorie Tracker would ask the user to enter their personal information. Next time the user should be able to log in using the password they have entered.

b) Manage User Information

Having signed in to our app, the user can view their profile, including their name, height, weight and etc by clicking the top icon on Personal Information page. The Personal Information page also displays the BMI and BMR information, which are computed by the Calorie Tracker. Also, the user can edit their profile by clicking the icon "Edit profile" and save it to the local database. By clicking "Exit Calorie Tracker", the user would log out.

c) Build Their Own Meal

This functionality represents our "Self-Selected Mode" in our Functional Requirements. If the user switches to this interface, they can view the recommended calorie intake range for breakfast, lunch and dinner. If the user clicks "Add" icon for one of the three meal choices(breakfast, lunch, dinner), our application would switch to the menu interface including all the dishes in the food database. The users are able to view the food nutrition information by clicking the food icon and add them to the Cart. Having selected one meal, the user can view their food choice if they click the "Cart icon" on the right. Though it is "self-selected" mode, our application would still show the total calorie of the current meal on the bottom. In the "Food Cart", users can still modify the quantity of each food. The user can choose to confirm or cancel. If the user wants to clear all food items, there is a "Clear All" button for users to reset the "Food cart".If the user clicks the "Confirm button", they would see a "hint message" describing if the sum of the calorie intake is suitable for the user. Once the user confirms the meal, the total calorie, date, and meal type(breakfast, lunch or dinner) would be written into the user's JSON file. Then our app goes back to the Self Selected Mode interface, showing how many calories you have taken in your food choice.

d) Health Mode

The Health Mode is the mode that allows users to receive a food-list recommended by the application with offering the total calorie and the number of food

they want to take. First, the user will choose which meal among the daily three meals to eat and then they can declare how much food they want to take. The function in health mode will read JSON database automatically and return a list with food are relatively healthy. If the user clicks on one of the food names would show food information. The sum of the food on the list will not more than the total calorie set by the users. The generate button is used to run the health mode and get the food list and the submit button is the button that confirms the meal and writes the data into the user's personal file.

e) Report Mode

The Report Mode is the functionality that allows users to view an intake calorie summary. When the user switches to this Mode, a bar chart about intake calorie for the past week will be created and presented by using a drawing API called MPAndroidChart. The data in the bar chart are extracted from the records in the user's JSON file and they will be sum up for calculating the total intake if the records are from the same day. Also, the user's BMR data will be demonstrated as a horizontal line in the bar chart, which gives the user a notification. According to average daily intake, The Caf Calorie Tracker will give a short overall review on the bottom for the user.

g) Clear Records Of Calorie Intake

Users are able to delete their current daily record. There is also another option to clear all records of the user. If the user clicks one of these buttons, their report would be cleared in their JSON file using the JSON writer.

Comparison With Initial Proposal

Incomplete Function - Administrator

In our initial proposal, administrator users can log in and generate a menu JSON file from REST API in The Caf website. However, Yejing Li realized the product ids are all hard-coded. It is impossible for us to get all the food database with limited time. Some historic menus are deleted on the website, which has caused the app to crash since the database is empty. Consequently, we decided to delete the functional requirement that enables the administrator to manage the menu. But the functions and interfaces are still in the project.

New Feature - Clear Record

Our team decided to enable users to clear their records. Since sometimes users might accidentally press the "Confirm" button, it would be convenient for the user to reset records.

YouTube Link:https://www.youtube.com/watch?v=3tdNWPF4rws
Dev logs: https://github.com/GitJillian/comp3004_group_HAPPY_3004/tree/master/dev%20logs