Project name: The Caf Calorie Tracker

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D2- demo summary

The functionality that our group to be demonstrated is the self-choosing mode in the The Caf Calorie Tracker. This is a function that allows users to select dishes that they want to have from today's the Caf menu list. The moment the user chooses this mode, a calculator will automatically be launched to compute the calories of the selected dishes. After users tapping a checkout button to confirm the dishes they want, based on users' personal health profiles, a health notification will pop up to give recommendations or warnings about today's intake calories to users. To be exact, the notifications are generated on the basis of the users' concrete health information, including their BMI and BMR. The logical part of this demo is that the user can select dishes from a drop list of food menu and the calories calculator is truly working. However, the UI part of how users entering their personal profiles has not been finished. we haven't implemented the function that modifies menu. For convenience, the information based on users' and administrator's input is simulated. We make up user data for a better demo. By the end of the project, our application should accomplish the functional requirements as described, using user profile to generate warning message in self-selected mode and for health mode.

So far, our group have obtained the The Caf menu information , and formatted the data into a Json file as our database. Moreover, we have implemented a database management class written in Java to manipulate the data. One of the main functionalities, self-choosing mode is finished. Another functionality, health mode is half finished and its difficulty would be described below. In the past few days, there were some problems like designing UI or deciding a overview a whole project. The biggest difficulties that we are facing is in self-choosing mode, how to deal with the interactions between data function and controller, which is usually called adapter in Android development. Designing a suitable adapter to control processing between selected dishes, numbers and total calories when the users are interacting with the interface(view) became a problem. Luckily, in the end we got inspiration from an online shopping cart example that we could take the similar design. In addition, the health mode is able to read the weekly menu. It also has the ability to filter the food items by determining whether they are healthy or not, by using tags. The challenging part of this mode is how to generate a healthy menu with a proper portion. To accomplish the health mode, we try to search some formulas online and select the most feasible resource. At last, in the following days, our group will implement the rest functionalities, weekly report and user login interface as soon as possible. If we get enough time, we may add one more functionality that allows the administrator to add more food dishes into the menu.

The component diagram