Bi-weekly report 8 - OpenMRS Hypertension 29/02/2016

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Overview

In the last two weeks we have been working on further implementing the necessary requirements. We have managed to complete a part of the "Graph" page that shows the number of steps from the last five days as well as finish the "Sync Data" Page that allows the user to automatically synchronise his GoogleFit/Fitbit data with the OpenMRS database.

Furthermore, as specified by our client, we have started implementing a food api called FatSecret. FatSecret is a REST API that can be used to build nutrition, diet and weight management solutions on any platform.

We have used it for the Android client's "Input Food" page so that the user can have the opportunity to manually search for their desired meal. So far, the API returns a JSON log containing the food_id, serving_id, food_type, brand_type, meal_type as well as the common nutrients data types (calories, carbohydrates, protein, fat, saturated_fat, cholesterol, fiber etc.)

We have also been working on further implementing the chat page. The problem is that the messages fetched from the database are in reverse order, so we'll have to find a way to order them according to the date posted. Another part that we need to implement is the Android client for the doctor's point of view as so far the patient's chat only works one way: the patient messages are sent and retrieved to/from the database but there's no connection between the patient and doctor so far.

Tasks completed

Over the past two weeks we have managed to:

- Finish implementing the Sync Data page (the user is now able to save their googlefit/fitbit data to the openMRS platform)
- We have implemented the FatSecret API that returns a JSON format with all the nutrition data required

Next aims

For the next two weeks we are planning to:

- Finish implementing the Graph Page (the user will be able to see basic average weekly data such as average heart rate, target heart rate, BMI etc)
- Start to implement the android client from the doctor's point of view
- Work on the user interface

• Finish implementing the Input Page so that the user can search for their desired food (so far the android client returns a JSON type of the input searched)

Members Contribution

<u>Diana</u>

For the past two weeks I have been working on implementing a food API as specified by our client's last email. I have chosen using the FatSecret API as it offers all the necessary data (food_type, brand_type, meal_type as well as common nutrient data types). So far it only returns a JSON format on the input searched and therefore in the next weeks I will be working on changing the user interface.

<u>Chevy</u>

For the past two weeks, I've been working on the SyncData page, ensuring that the FitBit integration was able to seamlessly download the data from FitBit, cleaning the downloaded data to suit what we needed and uploading it straight to our OpenMRS server directly.

<u>Sam</u>

During this period, I have been adjusting the syncing option between Google Fit and OpenMRS webapp according to the client's preference, as before instead of making new observation in case users sync twice a day our app would overwrite the last observation.