

## Bi-weekly Report 4 - OpenMRS - Diabetes

### 27/11/2015

**Team name :** System Engineering Team 13  
**Team members:** Ng Zhi, Sam Mai, Diana Darie  
**Client name :** Prof. Philip Treleaven, Alex Matei  
**Client Company :** UCL, Bupa

### Overview

Over the past two weeks we have been searching for a method to input the data into the OpenMRS platform. We have managed to successfully install and run the form module as well as create our own forms so that we can store the wanted data from the wearables. So far, the user can manually input their data (food consumed during the day, calories intake, distance walked, steps and so on) into the OpenMRS platform which is then stored in the database server.

Now the second part consists of implementing these forms into our Android app so that the user can manually input the required data. Once this is done we will be working on synchronizing the android OpenMRS client with GoogleFit and Fitbit by taking the data we need and then using the forms we have to send it to the OpenMRS platform.

### Problems Encountered

Most of the problems we encountered were from the OpenMRS platform, where we would receive unusual response from the server, even though installation instructions were followed correctly.

One of the problem we encountered was accessing patient information from our own devices, where we would receive an error on one device while the other device was able to retrieve it without problem.

Another problem we encountered was adding modules that would provide more functionalities to our server. We were having problem installing modules as there had been multiple issues with the module version that we were trying to install, which would conflict with our existing modules. We managed to solve some of this problem as we found out some of the modules were installed in the wrong directory.

However, we are still having problem installing important modules such as Xforms and HTMLFormEntry provided by OpenMRS to our server, which would allow us to send data using the REST service from our mobile application.

### Client Meeting - Tuesday 24/11/2015 4.30pm

We had our client meeting with Prof. Philip where we discussed about our progress with the project and the problems we were encountering. We also talked about the project deliverables and upcoming video submission where we further cemented the project concept. We also set our next meeting on the following Tuesday to discuss more about our video.

### Tasks Completed

We have managed to:

- Install the form module
- Update the website
- Developed and finish the user interface design for our Android client
- Finalised our MoSCoW requirement list

## **Members Contribution**

### **Diana**

Over the past two weeks I have been working on installing new modules on the server platform as well as creating new concepts that will help us fetching the data we need such as calories intake, distance walked, number of steps and stairs, heart rate, number of sleep hours and restless moments. Furthermore, I have created a form that we can use for synchronizing the data from GoogleFit that the user can use to manually introduce the data which will then be saved on the server platform. In addition, I have managed to find a way to uninstall and permanently delete any unwanted modules from the server platform. Moreover, I have created my version of user interface design for our android client so that we can start changing and coding the android client we use so far without having any misunderstanding or miscommunication issues.

### **Chevy**

For the past two weeks, I have been researching on ways to upload our data from our Android app to our OpenMRS server using the REST service. I also prompted our team to create an user interface design individually for our Android app so that we will be able to ask our client for feedback.

### **Sam**

During the past two weeks, I have been working on the OpenMRS platform server, managed to find out a way to create a form that allows us to record the correct type of data that we will be collecting via our Fitbit wearable. However, it is only working with the webapp at the moment so there are still things need to be improved. I have also created a mockup UI design for our android app and currently waiting for client's feedback until we have agreed upon the final design.