

**Bi Weekly Report 9**  
**COMP204P - Systems Engineering**  
**Group 31**

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Nuffield Health & Microsoft Project

**Overview of progress**

**3 March 2017:**

Meeting in labs with Mirek. We did a quick demo of the current product. Gave him an update on the addition we'd made on the dashboard and user profile.

We also made him aware of the different goals we'd set ourselves for the next sprints, such as implementing data visualisation.

He gave us some ideas for making sense of health data by drawing inspiration from apps such as Strava. He added that we have to put a calendar on the dashboard, enabling the users to book gym sessions using our app.

**6 March 2017:**

Meeting with Alex. Discussed the possibility of having access to new data sets. He explained to us that he is in the process of getting his hands on a data set on users who choosing a specific contract with Nuffield Health.

Integration of endpoints with AzureML was discussed as well. We discussed ways of providing guidance to the user for him/her to understand the dashboard and its functionalities. We figured we'll make a page providing all the necessary help the user might need.

**9 March 2017:**

Meeting with Alex in Barbican. Alex has to get the provision of the new Nuffield health dataset approved by the company. This dataset contains data on clients in contract with Nuffield Health that can be cancelled within a month. We will use this dataset to train our predictive model, specifically on gym attendance. He explained to us how the handover of the project to MSc students will happen.

## **Individual section**

Marc de Fontenay :

Over the last couple of weeks, I've investigated different options to d3.JS, knowing that Diana had used another library (to be able to send snapshots of the graphs in a weekly email). I found out that Chart.js would be a good alternative and could be used as a complement, because of its clarity and ease of use relative to d3.js. I also improved the Google maps integration, adding all of the Nuffield Health London gyms, and creating expandable markers containing corresponding information about the facilities. I was also involved in meetings with Alex and Mirek leading up to our next sprint and material for the progress check.

Mo Afsharmoqaddam:

Began development of creating a new gym observation model to merge our current gym observation data to the dashboard, where you should be able to pull user data from documentDB and route to the main dashboard. Changed database routing to be able to have all the information in one database rather than two separate ones. Additionally fixed some minor bugs locally such as routing of the clickable name tag on the dashboard.

Jas Semrl:

Began developing the improved feature of user registration that allows the user to choose datasets to be presented and who they want to share their data with and add personal data when their account is initialised. In addition to that, the future version of the feature will provide a quick tutorial about how to use the website. I have also helped Mo with the database routing to have all the information in one DocumentDB database.

## **Plan for the next two weeks:**

- Embark on the next sprint before easter break
- Start displaying relevant health data on dashboard
- Pull data from the dataset within DocumentDB
- Implement AzureML integration
- Start integration of skypeBot