Bi Weekly Report 10
COMP204P - Systems Engineering
Group 31

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Nuffield Health & Microsoft Project

Overview of progress

16th March 2017:

We met Alex Matei, our Nuffield Health client to showcase our demo with the sister team and to showcase the plan of our second sprint of the development work. We spoke about a new dataset that we could use for our dashboard as well as how the machine learning model would be trained. Additionally, we showcased the library we will be using to create our visualisation. This was due to creating consistency between Diana Darie's dashboard and our dashboard for Nuffield Health.

17th March 2018

We showcased briefly our updates of the dashboard. We implemented an end-to-end system where Gym Sessions were recorded per user in Nuffield Health and configured GoogleFit to showcase the number of steps of a person in the graph. Additionally we implemented more backend functionalities by creating new models for the database as well as well as error handling and global callback functions.

23rd March 2017:

This meeting was mainly based on a new dataset which we received from our client. The dataset includes new and useful information from nuffield health showcasing the start of the contract of a nuffield member. Additionally, we brainstormed graph and visualisation ideas that would be useful to Nuffield Health customers based on our dataset as well the GoogleFit datasets.

24th March 2017:

This was our final meeting with our TA Mirek Janatka, we showcased our main prototype with a new front-end design and all the functionalities of the graphs that were implemented. Additionally we showcased our project website and gathered valuable feedback about what needed improvements and what things were going well. Mirek told us to do more work on the interface and polish details across the functionalities of our product.

Overall Evaluation of Second Sprint:

- Implemented GoogleFit integration
- Visualisation of different types of graphs, such as steps, steps per day, lunch and evening, location, gym visits implemented
- New branding of Transpire, homepage design and video
- Improved dashboard front end and added data share options section for the users
- Backend functionalities such as messaging queues and databases integrated properly with the application

Individual section

Marc de Fontenay :

During this sprint I was mainly responsible for learning the Graph.js library and designing relevant graphs on our dashboard. I learnt how to implement, proposed a set of visualisations to incorporate, and helped team mates integrating with sample database. Sketches were scanned and added to our project website within the Design section. After discussion with team mates, we agreed on a specific layout implementation of different graphs using both Nuffield Health and Fit Bit data. I served as liaison with Diana Darie, enabling partial integration with her work, giving her access to our git repository. I was also responsible for implementing a new login page UI, specifically a Creative Commons licensed video. Work on the project website and documentation was conducted as well, with written sections on Design, Human Computer Interaction and Research and multiple updated sections.

Mo Afsharmoqaddam:

During the beginning of the sprint I started working on creating new models for the gym swipes of nuffield health members and exported gym swipes data from our backend into our front end. Additionally, helped designing the gym graphs for the dashboard. Furthermore, cleaned some bugs such as adding https routes for warnings that were created on the application as well cleaning up the front-end design. During the second week I created a new logo for our application and started mainly working on the project website. I started planning everything that needed to be on the project website based on project guidelines and refactored the design and content of our website. Added new sections with the help of teammates such as HCI, Design and Testing.

Jas Semrl:

I have worked on deploying a fully functional backend that implements the message queue architecture. In addition to that, I have looked into new data collection sources, notably Google Fit and successfully integrated the data to be displayed on the dashboard. In addition to that, the data are now being sent through our messaging queue architecture which allows sharing with third party subscribers through our API. I have also been working on the integration with the Skype bot and visualising the data on the dashboard. Additionally, I have migrated the new swipe data to the Document DB and helped restructuring it. Furthermore, I have ensured that the current version of the system is live and available online.

Plan for the next two weeks:

- Complete and remove minor bugs of the project
- Handover the project to client
- Testing and completion of project website
- Improve general documentation of our product