

# Bi-Weekly Report #4

## Overview

Over the past two weeks there has been significant progress in formalisation of requirements. A full MoSCoW chart has been developed and reviewed by the client. Furthermore, testing methods were written up, including unit testing, integration and functional testing and user acceptance testing. Use cases were also written up formally. Furthermore, the overview research page has been completed.

Work has began on the experimentation phase of the project and experiments investigating data visualisation using D3.js. Three experiments has been done so far to explore the validity of different visualisation techniques in D3 on the Peach project. Experiments exploring the extraction of data from HTML files has been completed. Mockups were created for both the Design Guide and for the Dashboard frontend. A prototype for the Dashboard frontend was also created.

The vast majority of the research into technologies for development was completed and fully written up over the past two weeks. These include Middleman (static site generator), React JS, Electrode, D3 JS, Google Charts, Chart JS, N3 Charts, Bootstrap, Material UI and Pure CSS.

## Achievements

- Requirements completed as both MoSCoW form and further elaborated upon in Requirements document.
- Use Cases completed
- Testing methods planned for use during development written up.
- Experiments conducted to test use of d3 for data visualisation
- Experiments conducted to test how to pull and export data from a markup file.
- Background research page completed.
- Mockups for both Design Guide UI and Dashboards UI created
- Prototype for Dashboard UI created
- Majority of research into technologies and frameworks completed and written up.

## Summary of meetings

### *Client Meeting-25/11/2016:*

Within this client meeting we were introduced to a medical student who will later in the project aid us in user acceptance testing. We were told that the Visual Report project no longer fell under the team's remit. However, it became apparent that our team is still to explore methods of data visualisation for the Dashboards project. We also discussed task prioritisation with the client. Additionally, we were able to show him an iteration of our project website.

### *Client Meeting-2/11/2016:*

Within this client meeting, we were able to clarify some issues that he had with the MoSCoW requirements that we had submitted earlier in the week. Furthermore we discussed the progress we had made over the week, especially regarding mockups and prototypes.

### *Meeting with team 41-2/11/2016:*

Within this brief meeting, in order to clarify some misunderstanding our team had with the architecture of the project and why pulling data from HTML files is necessary, team 41 were able to fully outline their deliverables for the project, and what the output of the form generator will be.

## Plan of action

- The most urgent plan of action is to update the team website with our most recent work that has been completed.
- We also need to perform more experimentation with various D3 graphs and other data visualisation techniques to see which one are best fit for our project
- Work into architectural research needs to be completed.

## Independent Work

### Hai Xia

I have written up the requirements in MoSCoW format in detail and have negotiated with our client to update the requirements. I have also written up the use cases in table form. Additionally, I have written the Testing section of how we plan to perform testing once we are ready. I have also done some interactive D3 data visualisation experiments. Finally, I have made a prototype of the dashboard.

## Connor Daly

Over the past two weeks, I have primarily focused on research. I have written up documents detailing Middleman, Pure CSS and Material UI. I also worked on Background Research. I furthermore wrote the overview document on 'our project'. In the second week I conducted experiments with Python and Node.js looking into how to extract data from html documents and then export it (into a textfile in the experiment).

## Daniil Gannota

Over the past two weeks, I have written up research on Bootstrap and Electrode. I have made some edits to the project website with regard to functionality and general structure. Furthermore I have begun Architectural Research, whilst I also worked on Background Research. Finally, in the past week, I made some initial experiments with regard to the use of d3 for data visualisation.