

Bi-Weekly Report 1

27th January 2017

Team 1: Microsoft Capita Data Visualisation Project

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OVERVIEW

Over the past two weeks, we met with our client, James Randall, to learn more about the architecture of the existing application and his ideas for the architecture of the web application. He also gave us further details on the project brief and what he expects us to achieve by the end of the project. We also had a meeting with our supervisor, Harry Strange, and Team 2 in which we discussed how we plan to link our parts of the application. Finally, we did a 2 minute elevator pitch in which we gave a brief insight into the purpose, architecture, technologies used and plan for our application.

MEETINGS

12th January

We had a joint meeting with Team 2 and our client James Randall in which we mainly discussed the architecture of the existing SIMS Discover application and his ideas for the architecture of the web-based version of SIMS Discover. His explanations gave us a good insight into how to divide our application into components to divide the workload and on how we can link it to Team 2's database and set engine. We also discussed possible challenges that could arise in the project such as how to make it scalable and reliable, and the possibility of using a fall over database. We also discussed how this challenges could be mitigated.

18th January

We had a meeting with Team 2 and our supervisor, Harry Strange. In the meeting, we discussed ways in which we could link our part of the app (the front end), with their data and set engine (back end).

TASKS COMPLETED

- Got a copy of a sample SIMS Database
- Decided on the architecture of SIMS Discovery
- Did an 2 minute elevator pitch of our application to other students and clients

PROBLEMS

- Have not yet linked our part of the application to Team 2's database

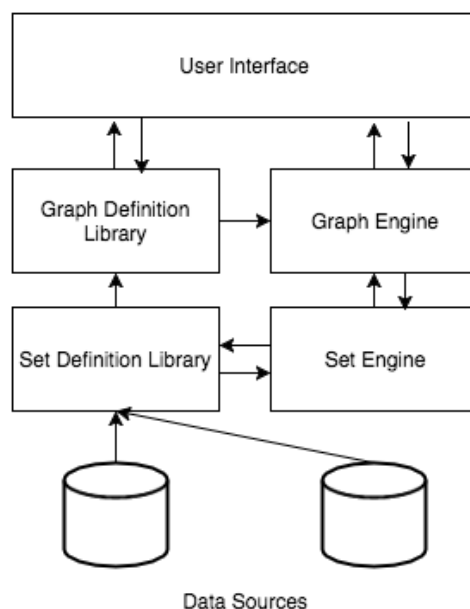
FUTURE PLAN

- Link application to Team 2's data
- Complete a basic version of the graph engine with a limited number of graph types

INDIVIDUAL REPORTS

Carlota Ortega Vega

During the last two weeks I have been working on planning the architecture for our version of SIMS Discover and on the presentation for our elevator pitch. On our meeting on 12th January, James Randall created a diagram on the components he thinks will be in the web-based version of SIMS Discover. Using that diagram, I created an architecture diagram to show how those components will interact with each other.



My task is to work on the user interface of the application, which I will continue to do in the next two weeks. I also worked on the slides and script for our elevator pitch presentation, including the previous diagram for our systems architecture slide. For the next two weeks, I plan on carrying some research on libraries I can use for the user interface and continuing development.

Bethany Graves

Team 2 came to us with an idea to speed up the sending of information from the backend to the front end. If they sent us the information compressed, and we found a way to unzip what they sent us, it would mean that what team 2 are sending us would be 25% the size of it uncompressed. I have been working on finding and implementing such a feature. To this end I have found a javascript package called zip.js and hope to include it in our PoC soon.

Fasbeer Eskander

After the meeting with James and some research, we came to the conclusion to that not all the widgets and visual functionalities of the SIMS Desktop app can be implemented into our app given the amount of time that we have. I've been working further to improve the code we have to visualise data using the d3.js library and research on the actual widgets that we will be implementing and make an estimate about the types of visualisation that can be included in the graph engine. Also before this term, we've been using dummy data available on the local desktop to create the charts on the visualisation window and I've been working on connecting to a database available in the cloud to visualise the data. For the following week, i look to be able to connect to a sample online database and also try to connect to Team 2's data for visualisation.