

Microsoft Capita Team 2 / Bi-Weekly Report 5

Date: 16/12/2016

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Overview

These past two weeks the focus was to tie up some loose ends with our experiments and make sure that the website is updated so that the client and the department can see the work we have been doing. We had several meetings with Team 1 to ensure that we are moving in the same direction and that our projects are compatible. We also had a meeting with Dr Strange.

Because of Scenario Week 4, fewer meetings were arranged but we are planning to meet before going away for the Christmas break.

Meeting summary

Tue, 6 December 2016

In this lab session we presented our website to our Teaching Assistant and showed some of the initial prototyping steps and experiments. We also helped Team 1 use the REST API that we created.

Tue, 13 December 2016

Nathan met with Bethany to show her how to use the REST End point and also handed her a Javascript file with functions that can be called to call GET Requests from the REST Endpoints. We will need to meet with members from Team 1 to cement how the REST Endpoints will function and what parameters they would like us to call.

Wed, 14 December 2016

Meeting with Dr Strange. This was a meeting with both Teams 1 & 2, where we discussed our progress. The main focus of the meeting, though, was the issue of getting more information from the client regarding the project. We have yet to receive access to data, or a working copy of either SIMS or the Discover add-on, access which will surely prove very beneficial and helpful for the project.

Tasks Completed

1. We updated the project website with all relevant information.
2. We run several experiments on different aspects of project
 - a. Timed SQL Query experiments
 - b. Microsoft ML Studio experiments with sample datasets

Problems to be resolved

1. Get access to SIMS database
2. Get a working copy of SIMS Discover

Plan for next two weeks

- The main plan for the next two weeks over the Christmas holiday is to start coding a more solid prototype, while having a more direct communication with Team 1 so that we can soon have a common prototype to show.

- We aim to create a common set of requirements for both the teams to make the overarching goal of the project even more clear.

Individual reports

Lambros Zannettos:

I spent most of these two weeks working on the website and adding in a number of the experiments we run. I also performed some experiments using Microsoft ML Studio and have continued watching several Lynda courses and doing reading on related subjects (Azure, SQL and Statistics).

Nathan Liu:

Over the last week I have created a mock database for a school management system that contains over 10 000 schools (half of the size of SIMS) with over 4 million data points. I ran a VM overnight for about 10 hours to insert mock data into the database. I then ran speed runs against the databases and recorded the time it took for SQL queries to execute. I wrote up the experiment log and analysed the results.

I also created several REST Endpoints and helped team 1 resolve the issues they had with communicating with the REST API (Problems with CORS). I wrote a javascript function that calls GET requests from the REST Endpoint that Team 1 can use as a sample for future work.

Junwen He:

For the last two weeks, I updated the website and presented to our TA, and got the feedbacks that we should add more aspects like challenges and lessons learnt. For the next few weeks, I will be working on real coding.