Status Report

Mid-Year Project Status Report

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| Team Members: | Hayley-Belle Cleverdon  | Vinicius Alves Ferreira | Karanjit Gahunia  | Seung-Kyu Jin  | Alex Lu |  |  | Client:  |Dr. Robin Hankin  Supervisor:  |Dr. Nikola Kasabov | Version 1.0  23rd May 2017 |  |  |  |  |

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# Executive Summary

# Project Description

This project is a Research and Development project assigned by the Computing and Information Sciences Faculty of Auckland University of Technology (AUT). Dr. Robin Hankin, a lecturer at AUT, proposed the project on behalf of the Auckland Mathematics Association (AMA), who are key stakeholders in the project.

Dr. Hankin has asked that we provide an in-depth feasibility study and at least a presentable prototype for a real-time online scoreboard to be used during MATHEX events run by AMA. This scoreboard would be used alongside the current pen-and-paper system, and aims to improve the experience that audience members have during the event, by allowing them to view the scores of each team as the competition is underway.

The feasibility study, along with all other project documentation, should provide enough information that another group of students could carry on with the project at a later date. The prototype can be presented to AUT faculty to show evidence of our development skills, as well as provide a working version of the solution for the AMA’s consideration.

# Project Overview

## Project Objectives

Our project objective is to create and implement a Real Time Online Scoreboard System into the Casio MATHEX competition within 1 year and at a cost which does not exceed $20,000.

## Project Scope

Our project scope has two major sections. The first section aims to produce a feasibility report which investigates whether the production and implementation of the scoreboard within the one year time frame is achievable. If the feasibility report reveals that the project cannot be completed in a year then we will also produce a Project Roadmap which details the project processes and tasks necessary to design, create and implement the scoreboard successfully into the MATHEX competition in case of project hand off.

The second section aims to produce the hardware and software for the Real Time Online Scoreboard system. This system will improve the attendee and participant’s experience by making it easier to keep track of the competition’s scores as well as streamline the judging process. Initially, however, a prototype for the system will be produced which will attempt to showcase and incorporate as many of the client’s requirements as possible.

## Project Approach

## 

## Major Milestones

## Project Deliverables

# Addresses to Recommendations

## Proposal Changes

A number of changes were made to the proposal based on the feedback we received, where any clarifications were needed or mistakes were found, we followed these up with corrections. More details about the changes made to the proposal can be found in the following section.

## Resources Provided

Many of these resources currently provide more information than we are prepared to utilize, as we will only be using one solution, it would be poor time management to upskill in areas that will be of no use to the project. Once the feasibility study is completed, we will have selected a single solution, and upskill in the areas required to develop the system.

## Framework Suggestions

Each team member has taken parts of the feasibility study to work on, and has made use of any relevant resources to aid in researching potential solutions for the system. This involves getting a general summary of the usefulness and application of each of the recommended tools and services.

These provided a great baseline for us to make decisions about how the project will go ahead, and allows us to give several options, compare them and make the right decision. At this stage we are still working on these solutions, but we expect to have them completed soon so that a single solution can be selected.

## Questions

Most of the questions were points that required further clarification within the proposal. We have made edits to the proposal to better communicate the points we were conveying. More details about the changes can be found in the next section.

## Conduction and Presentation Suggestions

Some very good points were made.

We will be sure to send in a soft-copy to the supervisor of any prepared documents – unfortunately this wasn’t an option earlier as we had not been assigned one.

We have better utilized GitHub, and are moving our Trello board over into the Project boards. We have upskilled to use TortoiseGit to upload our work to the repository.

We have good conduct in meetings, however the issue remains to get all team members to attend and we have a need to meet more frequently.

# Project Proposal Variations

# Project Status Summary

## Current Work

|  |  |  |  |
| --- | --- | --- | --- |
| Provisional Milestones | Semester | Proposed Finish Date | Actual Finish Date |
| Project Proposal | 1 | 30/03/17 | 30/03/17 |
| Project Proposal Presentation | 31/03/17 | 31/03/17 |
| Feasibility Evaluation | 26/05/17 | Incomplete |
| Project process analysis and review | 26/05/17 | 26/05/17 |
| Presentation to Client | 2/06/17 | - |
| Mid project progress review | 2/06/17 | - |
| Major Upskilling | 14/07/17 | Incomplete |

It can be seen above that so far we are behind schedule, as we underestimated the time it would take to complete the feasibility study, and the workload for other papers during the semester. However, we are working hard to get on track and the feasibility study is well underway.

We also ended up doing some upskilling earlier than we expected, as we found it necessary to comprehend the tools and services we were recommended, as well as tools we are using to work on the project itself.

## Issues

We are a team of developers that are yet to explore different technologies to solve problems, as we have mostly only been exposed to tools and services required by our studies. Learning about a few new tools is taking more time than we could have anticipated.

We wanted to organize a meeting with the MATHEX venue staff much earlier, however they have been away and we have not been able to get information from them yet.

There are many different potential solutions for the system, we are risking overlooking better solutions due to our limited knowledge on networking and infrastructure, as we are all software development majors.

We have trouble all meeting at the same time due to several schedule conflicts, we miss out on benefits of face-to-face communication and sharing a workspace because of this.

# Team Reflection

To more quickly gain knowledge of certain tools and services, we should seek out people whom have experience with those technologies. They should be able to provide a more comprehensive guide to them that can be more easily translated into the project.

We should more persistently contact the venue and AMA, and ensure we have our questions well prepared and any follow up questions should be asked as soon as possible.

Perhaps we should get in touch with more networking and infrastructure experts, to gain their opinion on what approach we should take for the project. Perhaps presenting our findings to them before we pass them along to the client.

We need to set a weekly meeting time, and if not all members can be present, we should make an effort to call over Skype or be active in Slack chat during the meeting to ensure we know what is going on. Nightly communication over Slack may also be necessary, with more frequent updates on the work each member is currently doing.

# Member Contributions