**Semester Break**

**28th June to 2nd July – 6 hours 40 minutes**

Spring Tutorial - <https://javabrains.io/topics/spring>

series of 24 videos

approximately 4 hours and 40 minutes of videos

followed by additional 2 hours of reading\practicing\understanding.

**3rd July to 4 July – 6 hours 20 minutes**

Spring AOP **-** From <https://javabrains.io/topics/spring>

170 min = 2hours and 50 minutes of video

Series of 12 videos

Reserved 2 hours for setting libraries and analysing code plus testing.

New section on Hardware specifications for the technical Research.

Along with the research and review of information provided with TA and Hayley.

It accounts for trying new tools such "Jmeter".

Reserved: 1h and 30 min for this task.

**10th July – 1 hour**

Skype call with Hayley

Approx. 1 hour

Machine generated alternative text:
Call to Hayley-Belle Cleverdon 
Call ended, duration 0050 
Call from Hayley-Belle Cleverdon 
Call ended, duration 41.81 
6:10 p.m. 
6:11 p.m. 
6:11 p.m. 
6:52 p.m. 
via Skype 

Summary as posted in Slack:

"Hey everybody. I hope everyone is having a good break. Hayley and I had a quick talk to review where we stand in the project. We agreed that we should meet every Tuesdays physically starting from next week onward.

We believe that we have enough information to put together a draft of the feasibility study, which would be our first version. It should then be updated as we go similarly to what we have done to the project proposal. Together with a prototype (interface only, user interface design) plus a slide presentation we will be organizing a presentation to our client on the 25th.

In order to achieve these goals we must have our parts in the feasibility study ready by the end of this week as well as be ready to present to all members of the group, this will share understanding among ourselves. A meeting on next Tuesday 18th from 12:30 till 3pm will take place to review the feasibility study, to review requirements and produce a user interface design ( Hayley has already started it), prepare slides to present to our client.

By the end of the next week we should have it all prepared, I am hoping we have some time to prepare for implementation phase if not start iteration 0, prepare list of features and etc.

Bear in mind there are plenty to be done so please keep the communication level high. and lets take advantage of the beginning of the semester when we are not super busy with other papers.

My secondary goal for next meeting is to set deadlines for the rest of the year and update all docs.

This is a good time to ask any question you may have, check and research anything that is missing.

Remember that we might have to upskill ourselves with JS (nodeJS), java spring framework, to be discussed.

We will use the repository in github "feasibility study", until advised otherwise.

Please confirm you have read it and let us know of any issue. I will text you for confirmation."

**11th July - 1 hour**

New section on Other Elements of a in-house Implementation

Reserved 1 hour for this task.

**11th to 14th July – approx. 5 hours.**

Briefly reached and compared different programming languages. NodeJS vs J2EE vs PHP. Angular and other CSS Frameworks such as Bootstrap. Further investigated java spring framework.

Acquired resources and understanding on how these language work and can be applied to our project.

These researched was performed to enrich myself with more understanding on how the computer machines support each programming language. This will expand and better explain the technical assessment.

**WEEK 1**

**17th to 19th July - 2 hours**

* worked on System recommendation section. Highlighted benefits and disadvantages of the implementation options. Highlighted concerns for each section.

**18/2017 – Team mearing - 3 hours**

We have discussed:

- We enforced that we should meet every Tuesday. ( Hayley is now available on Tuesdays)

- We agreed to put in the maximum effort to this paper while we are not super busy.

- We are aiming to present our research to our supervisor

- We should be preparing to the implementation phase. We can still get back to our schedule.

- We will keep the communication level high.

- For quality purpose, change records on top of each document should be recorded. Includes date, author, reason, description and version.

What we will be working on:

- User interface design to be completed, missing the judge interface. (to be present to judge and client for feedback). (**Hayley**)

 - Finalize technical study: (**Vini**)

+ implementation recommendation

+ Application solutions

- Operational study to be translated into a presentable section for presentation even though it is not completed. (**Alex**)

- Change management to be review (**Alex**)

- Requirements to be translated into user stories and or formal requirements (Karanjit) \* to be present to judge. Client to check and sign it off

- Quality plan to be review (Karanjit)

- Review project plan (**Vini**)

What we will discuss this week:

- When to contact client and supervisor

- Check what is missing

- Discuss technologies to be learned based on the solutions provided

- When should document be put together and reviewed.

**19th to 20th July – 3 hours**

-Worked on the Application solutions. It points out the Application that can be built to solve the problem. Options available and the advantages and disadvantages of each.

- reviewed project proposal and checked against feedback provided by supervisor.

- version 2.1 of the project proposal should be ready, team members will update stakeholders register and Communication matrix accordingly when necessary

- Updated Tasks on Trello board and inform each team member for last review on the tasks. Finalization of transition from Trello to GitHub.

- removed\ restructured OneNote notebooks, removed extra sections and put information together in the correct sections. Transitioning from OneNote to GitHub.

- Accessed feasibility study and prepared material for new sections which may be important. (resource and Schedule study)

- Reviewed quality plan and change management plan.

**21st July – Meeting with Judge – 3 hours**

The meeting took approx. 2hours and it was also recorded. The extra 1hour is due to commuting to the Auckland university campus in Epsom.

Summary:

Current problems:

Cost: MATHEX doesn’t make any money from the competition, they most likely would not be able to pay for the new system.

Currently the judge has to check if the answers are correct by matching the student’s answers with the answer written on the answer sheet which may cause problems if they were looking at the wrong answer. It may be nice to see questions and answers on the new system.

Things to consider:

We have to take into consideration health and safety, i.e. make sure the hardware is safely installed.

Judges may not be reliable, sometimes they are not even sure who the judges are until a couple days before the competition.

We may want to consider our application recording the times at which each team answered a particular question.

Final score results: See which questions were passed / wrong / correct.

Sort feature? See who’s winning, see the times they completed the questions.

We would have to make the new system simple and be able to work alongside the old paper system to begin. (Introduce the system in steps)

Could start setting up after school time at around 3:15pm, and assembly for the competition begins at around 6:30pm. This would give us roughly 3 hours to set up the hardware.

Notes:

The competition lasts 30 minutes a day over two days.

Two sets of 60 teams – 120 teams total.

One marker marks two teams. The two teams are colour coded for the judge to differentiate them, pink and white.

There will be a couple thousand spectators.

There are 20 questions total. Teams cannot go back on a question if they have decided to pass on it.

The first question MUST be answered correctly.

Teams can attempt questions as many times as they want.

There are markers and scorers (people who put up the score). Gillian is the final judge.

**Week 2**

**23-07 - 2:30 hours**

Revised and updated Sections:

Hardware requirements

System specifications

Application solutions

Created ned appendix B and C.

These changes were made to adapt to new set of instructions and requirements from Stakeholder.

**23th to 24th – 2:30 hours**

Research:

Hardware specifications: processors, memory, SDD features, barebones. Looked for other options at vendor’s websites.

Searched and defined features: such ECC, PLP, RAID.

Other Hardware’s: UPS, cabinets.

Contributed for Appendix B and C as well as "hardware specification" update.

**24th July - 2 hours**

Revised Project proposal and transferred all sections into a file, uploaded to GitHub, v2.1.

Initialized a final report for the feasibility study, all present sections were included plus the appendix A,B,C . Edit the doc.

**25th July – Team meeting – 2 hours**

Walked through what we have done so far and what must be changed after acquiring new information from the judge.

Explained how Mathex competition works in the background as we were instructed to the team member that could not participate.

Highlighted main points that judge emphasised.

The operational study can now be completed.

Some artefacts such as health and safety could be given more attention.

Judge does not think our project will add much value to the Competition itself. New Analyses from Organisers vs Client may enforces the project is not feasible.

Set up deliverables and plan next steps.

What it is expected from us:

Hayley - revise cloud solutions. Analysis of technical research. Update system implementation. Focus on existing technologies. Revise conclusions and recommendations for technical study.

KG – Revise change management plan. Revision of requirements, translate them to user stories. Acquire new requirements from meeting with organizer last week. Please revise technical assessment and comment on the conclusion and recommendations.

Alex – Revise quality plan. Finalize operational study. Provide analysis along with some conclusion to it. Please email judge for instructions about how Mathex works, what they need such as number of markers and people updating scores. That includes background actions such checking the score. Any further detail or requirements.

Jin- please update us with a summary from last week meeting. Finalize legal study. Evaluate issues mentioned as health and safety to the best available, such as concerns for implementing a screen. Assist KG and Alex with gathering requirements and etc.

Vini – Revise technical assessment and inform supervisor about our progress. Updated Activity diagram. Supervise team with their tasks.

Everybody should read the final report and understand it, everyone's input is important to define whether the project is feasible or not.

Get feedback from our supervisor.

Schedule meeting with client

**26th – 1 Hour**

Updated Mathex competition Activity diagram.

**28th – 30min**

Sent draft of the report to Supervisor.

**Week 3**

**1st August – Team Meeting - 3 hours**

All team members attended a team meeting at the R&D lab at 2pm.

We went over the feedback from the mid project review. Everyone is unhappy with the grade received and so might discuss with Akshay in a meeting. We've taken the feedback into account will make changes accordingly.

We discussed the progress made so far since the last meeting. The feasibility study had been sent to Akshay and feedback was received. We will work off that feedback and make the necessary changes.

Other changes to the feasibility study will be made too. We will add a benefits and issues section for each implementation. This is mainly for the client.

We all agree that the project isn't feasible as it costs too much and requires too many resources whilst having limited benefits. This will be discussed with the client next week.

Work was allocated for the following week for each member. All work is to be completed by Friday afternoon so we have time to review and prepare for client meeting.