Honours Project 2019/20 Minutes

Semester 1

7th October 2019
Attendees - Cameron Taylor, Michael Crabb

The following was outlined for the initial meeting
- End of semester deadline - 5th of May - hand in report
- Mid project report - 31st of January
- Semester 1 - get all documentation etc out way
- Semester 2 - more coding and testing
- Final report
  - Intro
  - Lit review (show that the work has to happen) - create question that has not been answered
  - Talk about a system that has been created - use case diagrams, database diagrams etc
  - Talk about the experiment - should be able to answer question proposed
    - What am I going to do?
    - What did we find out

  - Discussion
  - PLSE(Professional, Legal, Social, Ethical)
  - Conclusions - Draw everything together

- Waterfall model is needed, gannt chart - 2 week sprints - Hybridise waterfall agile
- Waterfall model for semester 1, Agile for semester 2
- 6 or 7 weeks on development
- Roughly 5 sprints - 2 weeks for each sprint
- Mid project report - 2 pages

Lit Review
- Will take up to Christmas
- Start reading papers on project
- Google scholar
- "How can I extend what other have done"
- Condense 50ish papers
- Read discussion not results - will tell you about results
- Take lit reviews, lit review

- Google scholar - cited by
- Mendeley - online database, word plugin, browser plugin
  - Once paper has been found use chrome extension, will keep metadata
  - Plugin that will help with referencing

- Decided what to use e.g. word, laytek, overleaf
- Github for word documentation
- Will need to submit a product log
- Have a GitHub repository for diagramq etc
- Start reading papers and start making notes

Week 1
1. Spend week thinking about module
2. Get hours of how long you should be working

- Gnant chart 2 weeks for each section
- Projectlibre for project management
- Academic phrasebook - makes things sound scientific
- Stick to one idea per paragraph during lit review
- Use Slack for communication

Make excel sheet for lit review
Look into how other lit reviews have been written
Google signhub
Be on vpn for uni papers??

For this week
Start reading papers about area
Get idea of specifics of what will be looked at - research questions
3 research questions

<u>14th October 2019</u>
<u>Attendees - Cameron Taylor, Michael Crabb</u>

Research papers were discussed and potential research questions were looked into

Micheal recommended to search the following - **"effective target width" fitts law**
The following research questions were discussed:

<u>Potential Research Questions</u>

1. How screen size affects fitts law for icon reach on mobile devices.
2. How screen size affects text entry
3. Fitts' law and ergonomics
4. How movement affects timing

For next week - look into more research papers

<u>21st October 2019</u>
<u>Attendees - Cameron Taylor, Michael Crabb</u>

More research papers were discussed

For next individual meeting - have at least 15 more research papers

A rough plan was outlined for the Fitts' Law task:
Php and sql API
Speak to mohamado about devices
Each test uses same devices
Continue reading
Ask self - "What do i want to show? And how do these paper help"

<u>28th October 2019</u>
<u>Attendees - Cameron Taylor, Michael Crabb</u>

Ethics was discussed and michael said that he will send example copies of what ethics forms should look like
I should use a low risk ethics form

4th November 2019
Attendees - Cameron Taylor, Michael Crabb
Discussed some of the papers that had been found along with any correlations between papers
Sci-hub was recommend as a way to access more papers
Begin to write related works section and introduction

18th November 2019
Attendees - Cameron Taylor, Michael Crabb

Feedback was given for the current related works section along with a general guide on how to write this section
A general layout was proposed

3rd December 2019
Attendees - Cameron Taylor, Michael Crabb
A plan was given for the general layout of final report and what the work schedule for the next semester should be

Semester 2

27th January 2020
Attendees - Cameron Taylor, Michael Crabb
The current progress of the related works section was discussed along with what was required for the mid-term report.
For the next meeting a requirements spec, database model and a study method design are required

10th February 2020
Attendees - Cameron Taylor, Michael Crabb
The requirements spec, database model and study method design were shown along with the current process of the Fitts' Law task
For the next meeting current Fitts' Law task is required to perform a Fitts' Law calculation and to also try and get data sent to the database

26th February 2020
Attendees - Cameron Taylor, Michael Crabb
Improvements to the current Fitts' Law task as a 3x5 grid were suggested to allow for each part of the mobile device to be reached.

10th March 2020
Attendees - Cameron Taylor, Michael Crabb
Current progress with the proposed grid system was shown and was given recommendations into how to improve the current functionality

22nd March 2020
Attendees - Cameron Taylor, Michael Crabb
The grid system was shown again with the improvements suggested from the previous week. Database functionality given for the following meeting

30th April 2020
Attendees - Cameron Taylor, Michael Crabb
Current database functionality was shown

7th April 2020
Attendees - Cameron Taylor, Michael Crabb
The working system was looked at and sections of report were also looked into with advice on how to improve

15th April 2020
Attendees - Cameron Taylor, Michael Crabb
Final report progress was looked over

24th April 2020
Attendees - Cameron Taylor, Michael Crabb
Progress of report was looked over
A visual representation of results through showing the starting circle and the time/accuracy to each other circle was proposed

1st May 2020
Attendees - Cameron Taylor, Michael Crabb
The results that had been gathered and were looked at in detail along with how to progress with report

Questions raise conditions
Sci-Hub take paper DOI

Honours Meeting - 10/2/2020

Week 4 – Honours Group Meeting 1 (Introduction)
Week 5 – Individual Honours Meeting 1
Week 6 – Individual Honours Meeting 2
Week 7 – Honours Group Meeting 2 (Ethics)
Week 8 – Individual Honours Meeting 3
Week 10 – Individual Honours Meeting 4
Week 12 – Honours Group Meeting 3 (SEM1 Wrap Up)