Individual Report

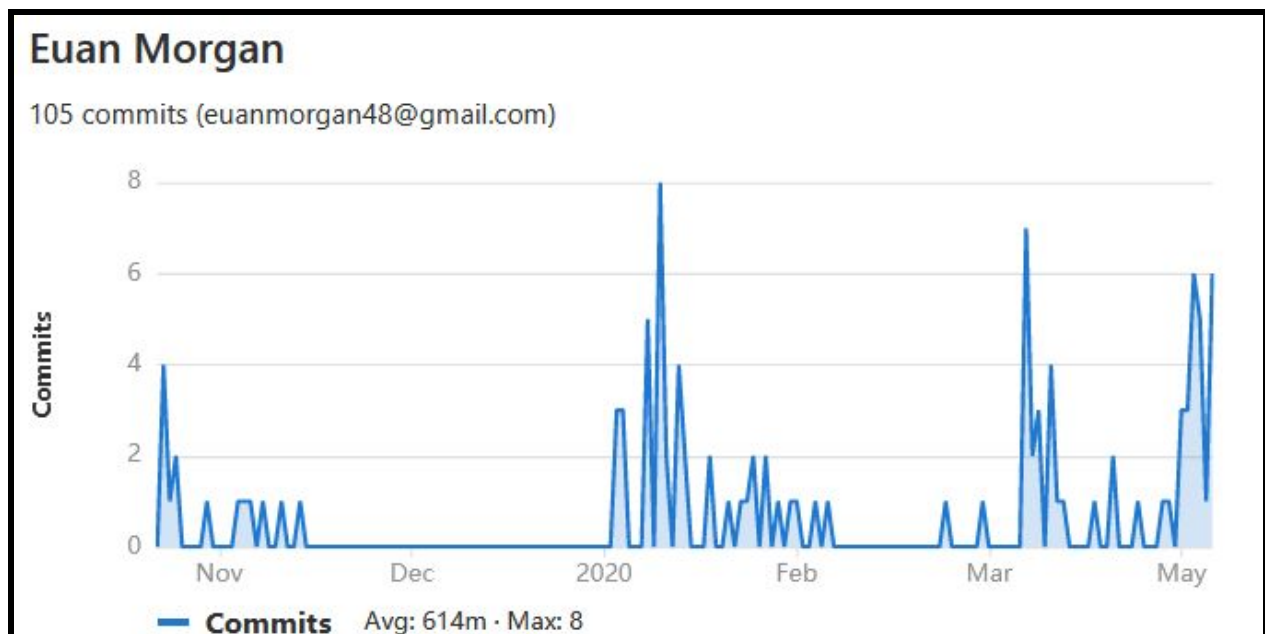**CM2305 Group Project**

Group 07

Euan Morgan

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My Contribution

I believe that I did my fair share of work and, like all my fellow teammates, helped push the team forward to bring us closer to success. In the Spring semester I attended 100% of our supervisor meetings and missed only a very small amount of our other two weekly meetings. I provided valid reasons for the meetings that I did miss and always gave plenty of notice to my fellow teammates. I also caught up on anything I missed whenever possible.
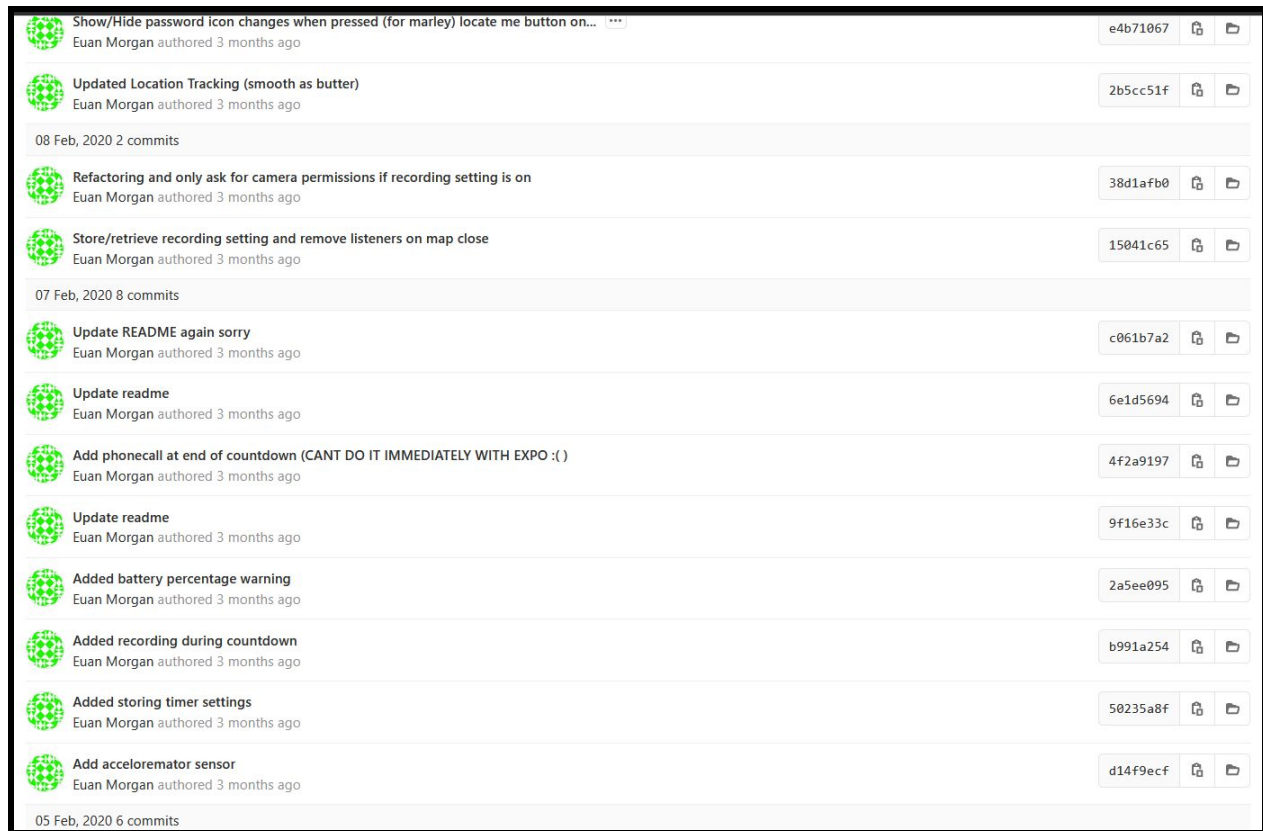
Contribution to the project

I was a part of the UI subteam and I was responsible for building the UI for the entire app, alongside Aaron. I also programmed many of the application features such as the settings screen, the stack and tab navigators, the accelerometer, the countdown screen and the recording video feature.

The screenshot below shows my commit frequency to the project gitlab repository, it clearly shows that I have been very active during all stages of development.

The screenshot below shows some of my commits to the Gitlab.

As a team, each member always tried to keep everybody up to date with their performance in our weekly supervisor meetings. Therefore, week by week I would inform everybody about the progress I had made and the other team members would offer suggestions or criticisms which I would try to address before the next week's supervisor meeting. I would also keep Aaron up to date as he was working alongside me, I would go to him first whenever I encountered problems or questions about the UI. If we were unable to resolve these together we would then ask the rest of the group.

The following screenshots are from our Sprint write up document, (this was written by Louis as he was the designated Scrum master, it contains each subteams goals and results for every week)

Sprint (06/02/2020)

DB
Goals:
- Log-in system

Result:
- No, but backend sorted for log in
- Lots of research completed

To achieve:
- Complete user features of the database

UI
Goals:
- Skeleton finished to interim report standard

Result:
- 75% complete
- Work has been done surrounding the rest of the UI

To achieve:
- Interim report standard complete
- Features (interacting with the device)

Sprint2 (11/02/2020)

UI

Goals:
-

Result:
- Interim Report Standard achieved

To achieve:
- Final touches
- Colour-blindness features

Sprint 5 (28/02/2020)

DB-
- Login is merged with the master branch
- Login and create account are working on master branch

Goals for next week:
    Validation of inputs
    Storing tokens

UI
- Did everything kirill said. (Go straight to map)
- Got rid of the menu screen and replaced with side draw (much better)
- Fixed Aaron's crash on android (and other bugs)
- Some other cool stuff

Goals for next week:
    Have a UI meeting (& discuss)

For the final presentation, I wrote and presented sections on the application settings, the accelerometer, the countdown screen, changes to the menu screen. I also screen recorded parts of the app demonstration alongside Sara and narrated the entire demonstration. I also volunteered to collect everybody's individual recordings and edit them together to produce the final video. Since each individual recording went to me first, I was also responsible for doing an initial check and offering criticism before the rest of the group made comments on the prototype version of the full video.

Contribution to the final report

The team's approach to the final report was simple: each member would begin by writing about the parts they worked on, from there everybody would pitch in where necessary and add to/suggest changes to the report as a whole. Therefore, I began by writing sections 3.4, 3.4.1, 3.4.2, and 3.4.4. These sections are some of the core implementation tasks. I wrote about the dead man's switch, the accelerometer and the SOS countdown screen. Additionally, each group member chose one of our interim report test cases to write about, I selected "the user can log in with a previously existing account" (section 4.1.2) and conducted the test then did a write up of it. I then began working on justification and evaluation of the UI. Aaron and I split up the screens between ourselves, I wrote the justifications for the main menu and the journey screen sections (5.6.1, 5.6.2). Finally, I wrote a justification and evaluation of React Native and Expo. From here, the bulk of my sections were complete so I proofread the report a few times and offered suggestions via comments, as did everybody else. When working on the report, I was in

contact with the other group members, particularly Marley as he is our designated LaTeX leader. He was in charge of making sure the overall formatting of the report was correct, so I would approach him with issues I was facing to ask for advice or solutions.

Reflection

During this project I have gone from a complete beginner to a reasonably advanced React Native developer, I am extremely proud of this achievement and I hope the knowledge I have gained is visible in my parts of the final application. I believe that my previous knowledge of git was valuable to ensure that the code was organised in our GitLab repository. However, I have never worked on a project at this scale with so many other people before, so I had to learn a lot more about dealing with countless merge conflicts, cherry picking commits, when to create new branches and many more valuable skills that I will continue to use in all future projects. Finally, at the beginning of the Autumn semester I was very shy and quiet during group meetings, I didn't feel like my abilities matched that of my fellow group members and I didn't feel like I had much to offer. However, as we progressed through the project I began to contribute more to weekly meetings and am now at a point where I consider myself to be at an equivalent level with my fellow group members. This will go a long way when it comes to my own professional development as I am no longer afraid to speak up during meetings and I believe I can provide valuable input to discussions.

There really aren't many bad things I can say about the project, the entire team worked tirelessly throughout, always looking to improve upon work we've done before. Unfortunately, due to Covid-19 much of our testing was put to a grinding halt. It is quite difficult to perform solid testing on a navigation application when in a lockdown. Additionally, we had two other courseworks in the same group from another module which put a stop to any work on the group project altogether for around 3 weeks. Despite these challenges, we pulled through and were able to deliver an application which successfully fulfilled the main criteria for the brief, and also a report and presentation which thoroughly explained all of our decisions and provided justifications for any features we left out.

In future group projects, I would aim to perform in a similar way to how I have with this project. I believe that constant communication with the other members, coupled with pure dedication to the project will always result in success.

Overall I believe I was a valuable team member and I am very happy with my dedication to the project. I also believe that the whole team was fantastic and if we lost a single member we wouldn't have achieved anywhere near the same level of success.