Diary of doing the project:

# Week 1 – ends 18th Jan

Refactored login screen. I decided to use proto.io as advised by David my second reader. I developed each screen, and how it will look like, and then used the same hex values in my application to mimic the same view. I talked with the supervisor about new meeting times, as she was available different days, and I had a different timetable since the previous year.

# Week 2 – ends 25th Jan

I had set out a plan for the timetable, the only problem I had was will I be able to complete everything specified there within the time I set out myself to have.

I have done out all the UML Diagrams, but my licence for the program has expired, but luckily I had created screenshots of them before when I had the licence.

App administrator can now choose and accept a building owner and verify them, if they are actually ones, when they tick the box in the reg screen.

Look at the W3C guide lines and develop my app according to that.

Developed a splash screen, but had a few problems, as to make the screen nice I’d have to either do the images myself or use non copyrighted images due to the law. The way I did it was use a non copyrighted version and added texted.

# Week 3 – ends 1st Feb

Developed a very basic settings that, and a location tab that showed the user current location and there was a placeholder for their current location.

Added a placeholder for co-ordidanates as I needed a way to make sure they are stored correctly

User sees a pin an their current location.

I used google maps api to make sure this worked, but I had problems with api keys, as I’ve created a number of projects previously and had to contact google to get more keys sent out to me.

# Week 4/5 – ends 15th Feb + MIDTERM

Building plan tab was worked out.

I had settings tab re-worked as user now need to put in their current and new password twice.

Building plan was drawn, based on the google maps image, it was very difficult to get all of the rooms to scale but feel like I did a really good job.

Created classes to act like corridors and buildings and rooms as expected

* User will be sent a specific building plan associated with their location.
* When an emergency event occurs an escape route is calculated and pushed to the users’ full size screen.
* Arduino Connections. Connect the Arduino to a buzzer when the emergency happens.

MAYBE USE A SOUND SENSOR TO DETECT FIRE ALARMS.

* Use a Bluetooth module for the Arduino, to connect the application with the Arduino
* When an emergency happens, a buzzer sounds on the Arduino

MIDTERM TO WORK AT THE APPLICATION TO MAKE SURE THE LAYOUT IS GOOD AND THAT IT WORKS

# Week 6 – ends 1st March

* Start working on the poster -> Due at latest on Tuesday 2nd of April @ 11;55 pm
* Make sure the Arduino and the application are talking
* Add more features for the user / Develop branches on Github.

# Week 7 – ends 8th March

* Arduino connectivity
* Make sure there are 2 views -> Map and Image view, each one brings to a different part of the application
* Make sure the escape route is given out correctly when there is an emergency

# Week 8 – ends 15th March

* Work on the poster with technologies
* Start the report, as I will have enough information on what I have done and what Is working
* Make tweaks to the application.
* Add notification system?

# Week 9 – ends 22nd March

* Poster
* Code the application and make sure the functionality and the visual experience is ok
* Improve the user experience of the application.

# Week 10 – ends 29th March

* Finalize poster
* Report write up
* Make Sure application is working correctly, and it is connecting correctly with the Arduino.

***POSTER DUE latest 2nd of April***

***POSTER DISPLAY DATE 9th April***

# Week 11 – ends 5th April

* Tweaks to the application if things aren’t working
* Maybe add Statistics to calculate the length the person has walked?
* Tests?

# Week 12 – ends 12th April

* Report
* Tests?
* Final Tweaks on the application

***VIDEO with Speech due 21st April at 11:55 at the latest***

***FINAL REPORT + SOURCE CODE due at Sunday 21st 11:55 at latest***

***HARD COPY Hand in 4:15 pm Tuesday 23rd April at the latest***