Plan for doing the assignment

# Week 1 – ends 18th Jan

* Refactor Login Screen colour scheme from Demo
* Set up a specific time with supervisor
* Model the Application in proto.io <- to see how the XML Files will look like and how each screen will relate to each other.

# Week 2 – ends 25th Jan

* Plan the timetable for doing the project.
* Work out the UML Diagrams and use cases <- see how they are displayed out and look for all of them
* Refactor Login to be able to choose that you are a building owner, with a specific entry in the database, consider the user interface, and consider w3c guidelines and standards.
* Develop a Splash screen when user enters the application, coded in Android Studio, and develop the image Gimp.
* Considering copyright issues if any and data protection.

# Week 3 – ends 1st Feb

* Develop the settings / and location settings of the application using Android Studio.
* Connect the location to firebase, so the user will have a secure database, Save the longitude and latitude of the user.
* User will be able to see the location they are currently at

# Week 4/5 – ends 15th Feb + MIDTERM

* 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***