CE881 Assignment

The assignment is to produce an Android app; this is split into two parts to help ensure that you make steady progress. Assignment 1 is to design and describe a prototype of your app. Assignment 2 is to implement the complete app and write a report on it.

Assignment 2

This part is to implement a complete working app in line with what you planned to do in part 1. You may make changes to the functionality if necessary, but you should explain the reason for such changes.

There are three deliverables:

- Complete implementation (an Eclipse or Intellij project with EVERYTHING necessary to build the app, including all Java and XML source files plus any additional resources (sound, graphics, text etc.)).
- A deployable .apk app file
- Report (in .pdf file format, if you are writing in word export a pdf)

A code/build/test demonstration will take place during week 25 labs.

The report should contain the following information:

- Brief Description of the App. This should be similar to the brief descriptions for apps published on Google Play.
- Detailed Description, including sample screen shots and how the navigation between various screens / fragments / activities. Describe all the features you implemented, and explain why any planned ones were not implemented. Also explain how you improved things compared to the prototype.
- Implementation. Include a UML class diagram and describe the software design, including the use of third-partly libraries. Include meaningful code snippets, and highlight any interesting aspects of the design.
- Testing: explain how you tested the app, stating whether it passed or failed each test.
- Reflection, future work and conclusion.

Length: 10 pages should be sufficient to describe all this, but this is not a strict limit.

The code demonstration is mandatory.

Submission (see OCS for deadline)

- A .zip file containing everything should be uploaded to the Online Coursework Submission (OCS) system. In Windows a .zip archive can be created by right-clicking on the root folder for the work and selecting "**Send to -> Compressed (zipped) folder**".

- Note: .zip is the only acceptable archive format. Please do not use others such as .rar.