**Project Outline and Implementation**

**Project Description:**

An Appointment booking system for a health care profession will be constructed. Patients will have the opportunity to access an mobile application and book any available appointment. If patients have any questions and queries they can directly communicate over the application. The typical structure of the software will be studied and discussed in the report.

**Basic functions:**

Login system

Display available time slots

Allow patients to book appointments

Allow communication via the app

**Additional Functions:**

Book patients in to specific rooms and doctors or nurses

Allow patients to add any adjustments that need to be made at the appointment for them

Inform patients of Items they might need to bring with them

Cancel appointments after they made

Search for appointment or book available date based on doctor availability

**Implementation:**

To implement the project, I will be using Android studio because the platform for my application will be android phones. I have chosen to use android studio because I have basic knowledge of using the software, also I feel that for app development android studio is more user friendly compared to other software's. Android studio also has a drag and drop feature which I feel will be very helpful to me as I do not have very good coding skills. It will make it much easier for me to design the interface and I can also get previews of how the application will look when it is complete. The application will require a database to store all the relevant information and depending on the amount of data this can be quite large. Therefore, I have decided to use a cloud database as this will make the application run more efficiently and secure. Also, using cloud database will reduce the memory space required for the application, there will be multiple back-ups reducing data loss and will be available all the time. To allow users to contact staff directly over the application I want to create a live chat feature which will allow users to speak to staff when they are online. At the moment, I am still researching into this matter to find the most suitable method to implement this feature. I am hoping to have found a method for this before our meeting next week so we can discuss it. Also, I will be doing research into additional features, so I can come up with some ideas that I could add to my application to make it better. However, I would like to create all the basic functions and features required first, hopefully by the end of the semester. This will then give me time in second semester to improve any flaws in the system and add additional features.