# Problem Definition Document

## Case Study

Over Surgery is a medical practitioners that would like to switch from their paper-based system to an electronic system. The receptionists are currently using the paper system to manage patient, staff, and appointment records. The manager of Over Surgery feels that moving to an electronic system would be beneficial. By developing an application for Over Surgery the receptionists job would be made easier as records could be made and accessed digitally. This would make tasks such as creating and managing records a lot faster and efficient, benefiting the surgery’s staff and their patients.

## Current System Description

Receptionists at Over Surgery our currently using a paper based system to manage the surgery. In today’s world this is very outdated and could lead to many issues. Paper based patient and appointment records are inefficient as searching for a particular patient or appointment can take a long time and records cannot be sorted dynamically as they can with an electronic system. Additionally, physical storage space needed as patients and appointments increase rises exponentially. With an electronic system this is not a concern as thousands of records can be stored in a computer’s memory with very little storage space consumed – depending on the hardware used.

The paper system is also very slow compared to the electronic system, every time a record needs to be edited the receptionist must find the record manually and then physically change it. However, with an electronic system, records can be pulled up and edited almost instantly.

## Project Aims

The application should have a secure login as well as various other features including:

* Booking and managing appointments.
* Checking staff member’s schedules and daily availability.
* Registering patients and managing their prescriptions and test results.
* Search for patients and retrieve their details.

## User Stories

As a group we decided to use the information in the case study and create a set of user stories that encompass the desired functionality of the system. Each week we would either divide up the implementation of the user story between group members or assign user stories to individuals for them to implement alone. After analysing the case study we decided upon 8 user stories for us to implement:

1. As a user, I want to be able to log-in to the system so that I can access its secure features.
2. As a user, I want to check a staff member’s availability on a specific day, so I can book appointments with them.
3. As a user, I want to see all on-duty staff members for a specific day so that I know which staff are working.
4. As a user, I want to register patients so that I can book appointments for them.
5. As a user, I want to search for patients so I can access their info.
6. As a user, I want to manage appointments so I can book, change or cancel an appointment.
7. As a user, I want to manage patient’s prescriptions so that I can extend their length.
8. As a user, I want to see a patient’s results so that I can print them.

## Project Schedule

