## Unit 6: Hands-on with UML

### Seminar 3: Working with UML

In this week's activity, you are going to get some hands-on practice with UML, with a scenario, which is described below. You have been asked to develop UML diagrams for a doctor's surgery based on the following scenario:

Before a patient can see a doctor, or nurse, they will be required to make an appointment. The appointment will be made by the receptionist. However, before making the appointment, the receptionist needs to ask the patient which doctor they would like to see, and whether the appointment is standard consultation or an emergency appointment. The receptionist will use this information to check the appointment schedule, find an available appointment and make the booking. During the appointment itself, the doctor may issue the patient with a prescription. It is possible for a patient to request a repeat prescription be raised. Receptionists are able to cancel appointments as well as create them. A doctor at the clinic may have a maximum of 500 patients registered to them at any one time.

### You should create:

- A class diagram for the system.
- A sequence diagram for booking an appointment.
- An activity diagram for a receptionist booking an appointment.

Upload your diagrams to the discussion forum to allow your peers to see the range of potential solutions.

We will discuss your diagrams in this week's seminar as this directly links to the upcoming summative assessment.

Remember to record your results, ideas and feedback in your e-portfolio as well.

## My attempts:

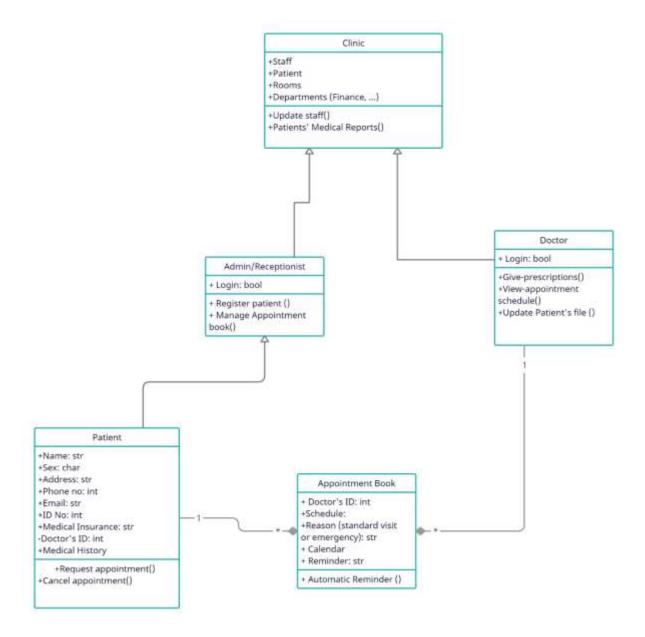
Hi.

Kindly find below the diagrams for booking an appointment. I tried 3 different online tools:

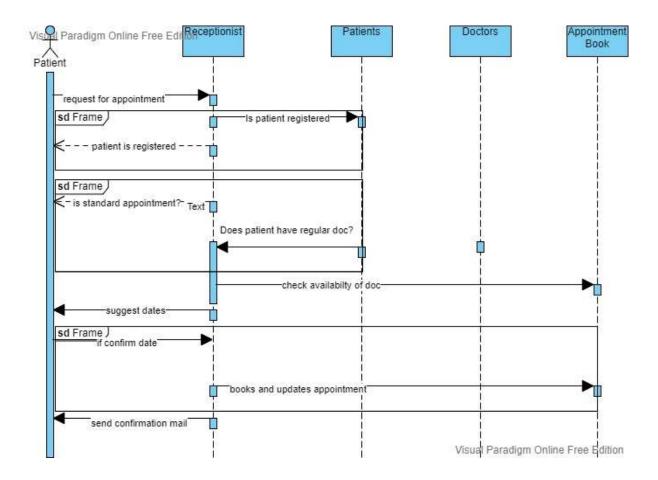
- Class diagram done with Creately App
- Sequence diagram with Visual Paradigm
- OnlineActivity diagram with Lucidchart

I had a lot of problems doing the sequence one online...

and there's room for improvement...



# Activity Diagram: Patient Appointment App Neelan Printig-Jetta: | September 12, 2021 \* Is patient 'registered'? Is it a standard Does patient have a regular doctor? Does patient have a regular doctor? suggest a doc Suggest another doctor or send to envergeocy department is doc available for immediate appointment? Does patient choose Suggest another date or put on waiting list is the patient free on dates suggested? Patient chooses dates & Recaptionist books the slot and send reservation/confirmation email



## Screenshots below are the answers by the tutor, Dr Buckley

