

# COMP1531 Report

Z3462807 .....

Clancy Rye

Z5165183 .....

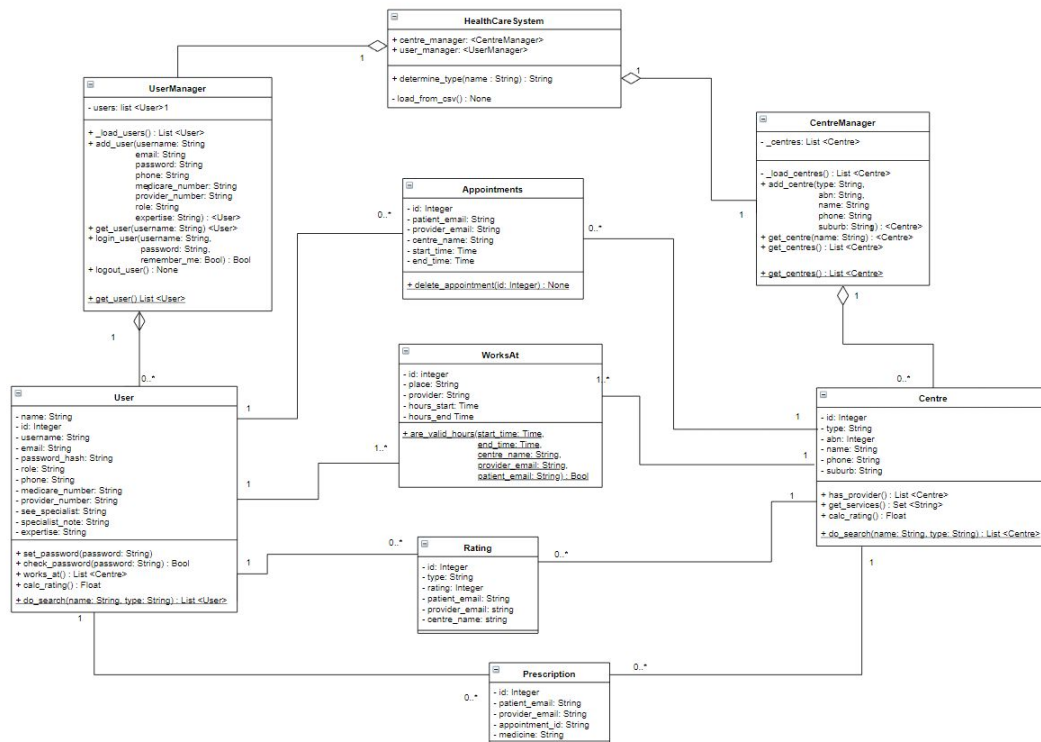
James Feng

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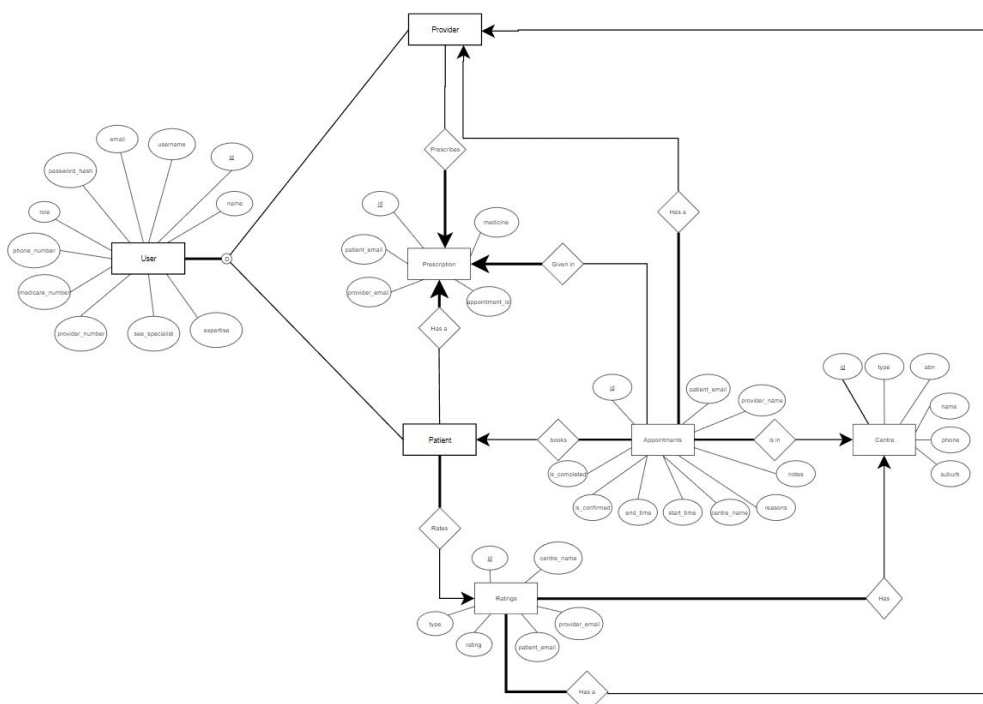
Andy Wang

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# Class Diagram



# ER Diagram



Please see the url inside directory for a larger version on draw.io.

# Updog - User Stories & Epics

Large user stories have been captured as 'Epics', which are broad and describe a complex feature or task that forms the core functionality of our minimum viable product (MVP). These epics have been further abstracted into multiple, smaller user stories designed to be completed throughout the course of the project.

The epics describing our MVP include:

- As a patient, I want to make an appointment at a specific, available time with my chosen healthcare provider because I want to see a healthcare provider.
- As a user, I want to login to my account because I want to access the services of Medi-soft.
- As a user, I want to search for healthcare providers by specific criteria because I want to book an appointment with a provider that is most suitable for me.
- As a user, I want to search for healthcare centres by specific criteria because I want to book an appointment at a centre that is most suitable for me.
- As a user, I want to have a profile page because I want to store information about myself for others to use.
- As a provider, I want to be able to refer patients to specialists so they can get appropriate treatment in special cases.

# Epics

## Patient Appointment Booking System

<b>ID:</b>	US-1 (EPIC)
<b>Name:</b>	Patient appointment booking system
<b>User Story Description:</b> As a patient, I want to make an appointment at a specific, available time with my chosen healthcare provider because I want to see a healthcare provider.  <b>Acceptance Criteria:</b> <ul style="list-style-type: none"><li>• All user stories contained within this epic are complete:<ul style="list-style-type: none"><li>○ Patient booking confirmation.</li><li>○ View my current appointments.</li><li>○ View my current appointments. (HC provider).</li></ul></li><li>• I am able to click a button that reads "Book Appointment" and am redirected to a booking request page.</li><li>• I am able to see the available time slots (in 30 minute intervals) for each provider at any healthcare centre for any particular future time.</li><li>• I am able to enter comments that describe my reason for visiting.</li><li>• I am able to click a button to confirm a booking with my chosen healthcare provider for the upcoming booking date at the corresponding healthcare centre.</li><li>• I am shown a message that shows that my booking was placed and is now pending. (To be reviewed by the relevant healthcare provider).</li></ul>	
<b>Estimate:</b>	5
<b>Priority:</b>	High

## User Stories

<b>ID:</b>	US-1-1
<b>Name:</b>	Patient booking confirmation
<b>User Story Description:</b> As a healthcare provider, I want to confirm a booking that a patient has requested because I want to confirm their booking.  <b>Acceptance Criteria:</b> <ul style="list-style-type: none"><li>• I am able to click a button that confirms the booking.</li><li>• The patient is sent an email to notify them of confirmation.</li><li>• I am shown a message that tells me the confirmation email has been sent.</li></ul>	

<ul style="list-style-type: none"> <li>Appointment status is changed from "Pending" to "confirmed".</li> </ul>	
<b>Estimate:</b>	1
<b>Priority:</b>	High

<b>ID:</b>	US-1-2
<b>Name:</b>	View my current appointments.
<b>User Story Description:</b> As a healthcare provider, I want to view my current appointments because I want to know my workload for a particular time period.	
<b>Acceptance Criteria:</b> <ul style="list-style-type: none"> <li>I am able to click on a button which takes me to a page displaying my current appointments.</li> <li>I am able to view time periods and a link to the patient profile for each appointment.</li> <li>I am able to view 'pending' appointments and 'confirmed' appointments as well as view the information associated with each.</li> </ul>	
<b>Estimate:</b>	1
<b>Priority:</b>	Medium

<b>ID:</b>	US-1-3
<b>Name:</b>	View my current appointments.
<b>User Story Description:</b> As a patient, I want to view my current appointments because I want to keep up to date.	
<b>Acceptance Criteria:</b> <ul style="list-style-type: none"> <li>I click a button that will redirect me to a page with all appointments that I've booked.</li> <li>Next to each appointment are links to the profile pages of the corresponding healthcare provider and centre.</li> <li>Only appointments that are after the current date are displayed.</li> <li>Appointments are displayed with either "confirmed" or "pending" status.</li> </ul>	
<b>Estimate:</b>	1
<b>Priority:</b>	Low

## Secure Account & Session Management System

<b>ID:</b>	US-2 (EPIC)
<b>Name:</b>	Secure Account & Session Management
<b>User Story Description:</b> As a user, I want to login to my account, because I want to access the services of Medi-soft.  <b>Acceptance Criteria:</b> <ul style="list-style-type: none"><li>• All user stories contained within this epic are complete:<ul style="list-style-type: none"><li>◦ User entering credentials.</li><li>◦ User reset login details.</li></ul></li><li>• I am granted access to systems services if email/password pair is authenticated successfully.</li><li>• Upon successful login, I am redirected to hub page that shows the services.</li><li>• If the wrong email/password pair is entered, I am denied access and provided a descriptive error message.</li></ul>	
<b>Estimate:</b>	3
<b>Priority:</b>	High

### User Stories

<b>ID:</b>	US-2-1
<b>Name:</b>	User entering credentials
<b>User Story Description:</b> As a user, I want to enter my credentials, because I want to login in to Medi-soft securely.  <b>Acceptance Criteria:</b> <ul style="list-style-type: none"><li>• I am able to enter my email into a field in plain text.</li><li>• I am able to enter my password into a field in masked text.</li><li>• I can click the login button to confirm.</li></ul>	
<b>Estimate:</b>	1
<b>Priority:</b>	Low

<b>ID:</b>	US-2-2
<b>Name:</b>	User reset login details
<b>User Story Description:</b> As a user, I want to reset my login details, because I do not want be blocked from site.	
<b>Acceptance Criteria:</b> <ul style="list-style-type: none"> <li>• I am able to click a button that says "Reset Password".</li> <li>• I am able to to enter a new password.</li> <li>• I am able to login with my new email and password pair.</li> <li>• Maximum email and password length of 64 characters.</li> </ul>	
<b>Estimate:</b>	2
<b>Priority:</b>	Med



## Search Healthcare Providers by Specific Criteria

<b>ID:</b>	US-3 (EPIC)
<b>Name:</b>	User search healthcare providers by specific criteria.
<b>User Story Description:</b> As a user, I want to search for healthcare providers by specific criteria, because I want to book an appointment.  <b>Acceptance Criteria:</b> <ul style="list-style-type: none"><li>• All of the user stories contained within this epic stories are complete.<ul style="list-style-type: none"><li>◦ User search healthcare providers by name.</li><li>◦ User search healthcare providers by profession.</li></ul></li><li>• If nothing is entered in any of the search fields, a message comes up asking the user to enter in some search criteria.</li></ul>	
<b>Estimate:</b>	2
<b>Priority:</b>	Low

## User Stories

<b>ID:</b>	US-3-1
<b>Name:</b>	User search healthcare providers by name.
<b>User Story Description:</b> As a user, I want to search for healthcare providers by name, because I want to book an appointment with someone I've booked before.  <b>Acceptance Criteria:</b> <ul style="list-style-type: none"><li>• I can choose to search by name insensitive to case.</li><li>• The search returns a new page with all healthcare providers with that name with partial matches and full matches.</li><li>• The search also displays brief details about the provider, including their average rating, as well as a link to the providers' profile page.</li><li>• If no matches are found, I am given a descriptive message to alert me to that.</li><li>• If nothing is in the search field, the search result should return all healthcare providers.</li></ul>	
<b>Estimate:</b>	2
<b>Priority:</b>	Low

<b>ID:</b>	US-3-2
<b>Name:</b>	User search healthcare providers by profession
<b>User Story Description:</b> As a user, I want to search for healthcare providers by profession, because I want to book an appointment with a specific type of healthcare provider.	
<b>Acceptance Criteria:</b> <ul style="list-style-type: none"> <li>• I can choose to search by profession insensitive to case.</li> <li>• The search returns a new page with all healthcare providers with that profession with partial matches and full matches.</li> <li>• The search also displays brief details about the provider, including their average rating, as well as a link to the providers' profile page.</li> <li>• If no matches are found, I am given a descriptive message to alert me to that.</li> <li>• If nothing is in the search field, the search result should return all healthcare providers.</li> </ul>	
<b>Estimate:</b>	2
<b>Priority:</b>	Low

## Search Healthcare Centres by Specific Criteria

<b>ID:</b>	US-4 (EPIC)
<b>Name:</b>	User search healthcare centre by specific criteria
<b>User Story Description:</b> As a user, I want to search for healthcare centres by specific criteria because I want to book an appointment.  <b>Acceptance Criteria:</b> <ul style="list-style-type: none"><li>• All of the user stories contained within this epic stories are complete.<ul style="list-style-type: none"><li>◦ Search for healthcare providers by name.</li><li>◦ Search for healthcare centres by suburb.</li></ul></li><li>• If nothing is entered in any of the search fields, a message comes up asking the user to enter in some search criteria.</li></ul>	
<b>Estimate:</b>	2
<b>Priority:</b>	Low

### User Stories

<b>ID:</b>	US-4-1
<b>Name:</b>	Search for healthcare centres by suburb.
<b>User Story Description:</b> As a user, I want to search for healthcare centres by suburb because I want to find centres near me..  <b>Acceptance Criteria:</b> <ul style="list-style-type: none"><li>• I can choose to search by suburb insensitive to case.</li><li>• The search returns a new page with all healthcare providers with that suburb with partial matches and full matches.</li><li>• The search also displays brief details about the centre, including their average rating, as well as a link to the centre' profile page.</li><li>• If no matches are found, I am given a descriptive message to alert me to that.</li><li>• If nothing is in the search field, the search result should return all healthcare providers.</li></ul>	
<b>Estimate:</b>	2
<b>Priority:</b>	High

<b>ID:</b>	US-4-2
<b>Name:</b>	Search for healthcare centres by name.
<p><b>User Story Description:</b>  As a user, I want to search for healthcare centres by name because I want to find a specific healthcare centre.</p> <p><b>Acceptance Criteria:</b></p> <ul style="list-style-type: none"> <li>• I can choose to search by name insensitive to case.</li> <li>• The search returns all healthcare providers with that name with partial matches and full matches.</li> <li>• The search also displays brief details about the centre, including their average rating, as well as a link to the centre's profile page.</li> <li>• If no matches are found, I am given a descriptive message to alert me to that.</li> <li>• If nothing is in the search field, the search result should return all healthcare providers.</li> </ul>	
<b>Estimate:</b>	2
<b>Priority:</b>	High

## User Profile System

<b>ID:</b>	US-5 ( <b>EPIC</b> )
<b>Name:</b>	User Profile System
<b>User Story Description:</b> As a user, I want to have a profile because I want to store information about myself for others to use.  <b>Acceptance Criteria:</b> <ul style="list-style-type: none"><li>• All of the user stories contained within this epic stories are complete.<ul style="list-style-type: none"><li>○ Rate providers.</li><li>○ Rate centres.</li><li>○ View health centre profiles.</li><li>○ View health provider profiles.</li><li>○ Update my profile page.</li><li>○ View my profile page.</li><li>○ View my own profile. (HC provider).</li><li>○ Update my profile page.(HC provider).</li><li>○ View patient profiles.</li><li>○ View a particular patients history.</li><li>○ Add notes of the patients visit.</li><li>○ Add prescribed medicine to the patient.</li></ul></li></ul>	
<b>Estimate:</b>	1
<b>Priority:</b>	Low

<b>ID:</b>	US-5-1
<b>Name:</b>	Rate Providers.
<b>User Story Description:</b> As a patient, I want to rate providers because I want to provide feedback to healthcare providers.  <b>Acceptance Criteria:</b> <ul style="list-style-type: none"><li>• I am able to click a button that rates a healthcare provider that I've had an appointment with from 1 - 5.</li><li>• I am shown a message that tells me my rating was given.</li><li>• If I have rated this provider before, I am shown a message that tells me if my rating has been updated from my previous rating.</li></ul>	

<b>Estimate:</b>	1
<b>Priority:</b>	Low

<b>ID:</b>	US-5-2
<b>Name:</b>	Rate centres.
<b>User Story Description:</b> As a patient, I want to rate centres because I want to provide feedback to centres.	
<b>Acceptance Criteria:</b> <ul style="list-style-type: none"> <li>• I am able to click a button that rates a healthcare centre that I've had an appointment with from 1 - 5.</li> <li>• I am shown a message that tells me my rating was given.</li> <li>• If I have rated this centre before, I am shown a message that tells me if my rating has been updated from my previous rating.</li> </ul>	
<b>Estimate:</b>	1
<b>Priority:</b>	Low

<b>ID:</b>	US-5-3
<b>Name:</b>	View health centre profiles
<b>User Story Description:</b> As a user, I want to view health centre profiles because I want to view their rating.	
<b>Acceptance Criteria:</b> <ul style="list-style-type: none"> <li>• I am able to click on a button that directs me to the health centres profile page.</li> <li>• I am able to view the following information related to that centre: <ul style="list-style-type: none"> <li>- Suburb</li> <li>- Name</li> <li>- Rating</li> <li>- List of healthcare providers and their services</li> </ul> </li> <li>• For each healthcare provider listed, I can click on a link which will redirect me to their profile page.</li> <li>• For each healthcare provider listed, I can also click on a button which will redirect me to a booking page for that provider at the centre.</li> </ul>	
<b>Estimate:</b>	1
<b>Priority:</b>	Low

<b>ID:</b>	US-5-4
<b>Name:</b>	View health provider profiles
<b>User Story Description:</b> As a user, I want to view health provider profiles because I want to view their healthcare providers.	
<b>Acceptance Criteria:</b> <ul style="list-style-type: none"> <li>• I am able to click on a button that directs me to the health centres profile page.</li> <li>• I am able to view the following information related to that centre: suburb, name, rating, and a list of healthcare providers, as well as the service each provides.</li> <li>• I can click a button that redirects me to the booking page for that provider at a specific centre</li> </ul>	
<b>Estimate:</b>	1
<b>Priority:</b>	Low

<b>ID:</b>	US-5-5
<b>Name:</b>	View health provider profiles
<b>User Story Description:</b> As a user, I want to view health provider profiles because I want to view their rating.	
<b>Acceptance Criteria:</b> <ul style="list-style-type: none"> <li>• I am able to click on a button that directs me to the health providers profile page.</li> <li>• I am able to view the following information related to that providers : name, email, centres they work at(??), practicing number, rating.</li> </ul>	
<b>Estimate:</b>	1
<b>Priority:</b>	Medium

<b>ID:</b>	US-5-6
<b>Name:</b>	View health provider profiles
<b>User Story Description:</b> As a user, I want to view health provider profiles because I want to book an appointment with them.	
<b>Acceptance Criteria:</b> <ul style="list-style-type: none"> <li>• I am able to click on a button that directs me to the health providers profile page.</li> </ul>	

<ul style="list-style-type: none"> <li>• I am able to view the following information related to that providers : name, email, centres they work at, practicing number.</li> <li>• I am able to click on button that redirects me to a booking page for an appointment with that provider at a specific centre.</li> <li>• For each healthcare centre displayed, I can click on a link that redirects me to their profile page.</li> </ul>	
<b>Estimate:</b>	1
<b>Priority:</b>	Medium

<b>ID:</b>	US-5-7
<b>Name:</b>	Update my profile page
<b>User Story Description:</b> As a user, I want to update my profile page because I want to provide updated information about myself.	
<b>Acceptance Criteria:</b> <ul style="list-style-type: none"> <li>• I am able to click on a button that directs me to the health providers profile page.</li> <li>• I am able to view the following information related to that providers : name, email, centres they work at(??), practicing number.</li> <li>• I am able to click on button that redirects me to a booking page for an appointment with that provider at a specific centre.</li> <li>• For each healthcare centre displayed, I can click on a link that redirects me to their profile page.</li> </ul>	
<b>Estimate:</b>	1.5
<b>Priority:</b>	Medium

<b>ID:</b>	US-5-8
<b>Name:</b>	View my profile page
<b>User Story Description:</b> As a user, I want to view my profile page because I want to confirm my updates have worked.	
<b>Acceptance Criteria:</b> <ul style="list-style-type: none"> <li>• I am able to click a button which allows me to update my stored profile information. (Name, contact details, license number).</li> <li>• Only an administrator or myself is able to update my profile information.</li> <li>• Updates to my profile page propagate within a reasonable time period.</li> </ul>	



<b>Estimate:</b>	1
<b>Priority:</b>	Medium

<b>ID:</b>	US-5-9
<b>Name:</b>	View my own profile.
<b>User Story Description:</b> As a healthcare provider, I want to view my own profile because I want to check my rating.	
<b>Acceptance Criteria:</b> <ul style="list-style-type: none"> <li>• I am able to click on a button which takes me to a page displaying my current appointments.</li> <li>• I am able to view time periods and a link to the patient profile for each appointment.</li> <li>• I am able to view 'pending' appointments and 'confirmed' appointments as well as view the information associated with each.</li> </ul>	
<b>Estimate:</b>	1
<b>Priority:</b>	Medium

<b>ID:</b>	US-5-10
<b>Name:</b>	Update my profile page.
<b>User Story Description:</b> As a healthcare provider, I want to update my profile page because I want to provide updated information about myself.	
<b>Acceptance Criteria:</b> <ul style="list-style-type: none"> <li>• I am able to browse to my profile page and update the fields contained within.</li> <li>• My changes update my profile instantaneously after saving them.</li> </ul>	
<b>Estimate:</b>	1.5
<b>Priority:</b>	Medium

<b>ID:</b>	US-5-11
<b>Name:</b>	View patient profiles.
<b>User Story Description:</b> As a healthcare provider, I want to view patient profiles because I want to view the patient history.	
<b>Acceptance Criteria:</b> <ul style="list-style-type: none"> <li>• I am able to click a button on my hub screen which shows me a collection of all patients associated with me.</li> <li>• I am able to view the profiles for all patients from this returned collection.</li> <li>• If I have no patients, this information is communicated to me so I don't think an error has occurred.</li> <li>• The healthcare provider can view the patient's past history from their profile page.</li> </ul>	
<b>Estimate:</b>	1.5
<b>Priority:</b>	Medium

<b>ID:</b>	US-5-12
<b>Name:</b>	View a particular patients history
<b>User Story Description:</b> As a healthcare provider, I want to view a particular patients history because I want to be able to prepare for upcoming appointments with that patient to provide a better service.	
<b>Acceptance Criteria:</b> <ul style="list-style-type: none"> <li>• If I have a patient assigned to me, I can browse to their appointment history page. (Either via searching them, or clicking on their name from my appointments screen).</li> <li>• This appointment history page reflects all of their prior appointments and the information associated with them.</li> <li>• For each appointment, there are notes relating to that appointment.</li> <li>• If a patient is not assigned to me, I should not be able to view their appointment history.</li> <li>• The patient history can be updated during the specific appointment.</li> </ul>	
<b>Estimate:</b>	2
<b>Priority:</b>	Medium

<b>ID:</b>	US-5-13
<b>Name:</b>	Add notes of the patients visit.
<b>User Story Description:</b> As a healthcare provider, I want to add notes of the patients visit because I want to record details about the patient.	
<b>Acceptance Criteria:</b> <ul style="list-style-type: none"> <li>• I am able to specify the visiting date, the patient's detail, reason for consultation, physical examination (if any), comment of a certain visit.</li> <li>• I am also able to edit the notes after the consultation time period.</li> </ul>	
<b>Estimate:</b>	1.5
<b>Priority:</b>	Medium

<b>ID:</b>	US-5-14
<b>Name:</b>	Add prescribed medicine to the patient.
<b>User Story Description:</b> As a healthcare provider, I want to add medication prescribed to the patient because I want to record treatment prescribed to the patient.	
<b>Acceptance Criteria:</b> <ul style="list-style-type: none"> <li>• I am able to specify the medication prescribed including: <ul style="list-style-type: none"> <li>○ Name.</li> <li>○ Dosage.</li> <li>○ Repetitions</li> <li>○ Times to dose per day.</li> <li>○ Instructions on how to dose.</li> <li>○ Warnings.</li> </ul> </li> </ul>	
<b>Estimate:</b>	1
<b>Priority:</b>	Medium

## Specialist System

<b>ID:</b>	US-6 (EPIC)
<b>Name:</b>	Specialist referral system
<b>User Story Description:</b> As a provider, I want to be able to refer patients to specialists so they can get appropriate treatment in special cases.  <b>Acceptance Criteria:</b> <ul style="list-style-type: none"><li>• A provider is able to refer a patient after having an appointment with them to a specialist</li><li>• A provider is able to write notes on the patient for the specialist to see</li><li>• A patient is able to book with a specialist after receiving a referral</li><li>• A patient is unable to change the message left by their provider during booking with specialist</li></ul>	
<b>Estimate:</b>	2
<b>Priority:</b>	Low

<b>ID:</b>	US-6-1
<b>Name:</b>	Refer patient to specialist
<b>User Story Description:</b> As a healthcare provider, I want to be able to refer patients to see a specialist of a particular expertise for further treatment  <b>Acceptance Criteria:</b> <ul style="list-style-type: none"><li>• I am able to specify the particular expertise</li><li>• I am able to write a note on the patient for the specialist to see</li></ul>	
<b>Estimate:</b>	1
<b>Priority:</b>	Low

<b>ID:</b>	US-6-2
<b>Name:</b>	Book with a specialist

**User Story Description:**

As a patient I want to be able to book with a specialist after I have been referred by a healthcare provider.

**Acceptance Criteria:**

- I am now able to view specialists on the booking page after referral
- I am now able to book with specialists after referral
- I am not allowed to book with specialists if I have not been referred
- I cannot edit the reason for booking which was specified by the provider

**Estimate:**

1

**Priority:**

Low

# Log Book

- Date of regular, stand-up meetings.
- Summary of decisions made in stand-up meetings, requirements elicited and key design decisions (hand-written user stories, CRC cards).
- Responsibilities allocated to each team member and tasks to be accomplished for the next meeting.
- Progress of tasks using a velocity chart. (A hand-drawing will suffice, no sophisticated tool needed, summary of decisions made in stand-up meeting).
- Milestones achieved.
- Reflection if assigned tasks (decided from last meeting) have been achieved.
- Any obstacles.

## **Week 06 (27/08/18 - 03/09/18)**

**31/8/18**

Clancy has joined the battle.

- Team agreed on having weekly standup and sprint review on Tuesday 8pm.
- Team Discord server created.

Team Facebook group created.

**2/9/18**

Group finalised the user stories and fitted them into the provided template.

## **Week 07 (03/09/18 - 10/09/18)**

**4/9/18**

Tuesday standup and sprint review

- Made basic skeleton of website
- Added css

## **Week 08 (10/09/18 - 17/09/18)**

**11/9/18**

Tuesday standup and sprint review.

- Worked on and improved profiles, search, login and booking history

**14/9/18**

Discussed and finalised the individual components based off UML diagram (James) and user stories (Clancy).

Clancy:

- Create frontend web and back end for login and authentication.
- Create a database for storing values
- Make registration process

James:

- Profiles template for users
- Profile template for healthcare providers
- Classes

Andy:

- Implement the searching algorithm
- Link the profiles and appointments
- Collect values from the .csv files

Jessica:

- Make the current appointments and history page
- Add appointments to user and health provider

## **Week 09 (17/09/18 - 24/09/18)**

**18/09/18**

Tuesday standup and sprint review

Based off feedback decided to make some changes and improvements

- Updated class diagram
- Search has more criterias
- More specific booking criterias

**21/09/18**

Decided on a weekly meeting date of wednesdays after 4pm. However during mid sem break, the meeting will be on Friday instead.

Checklist to finish before the next meeting on 28th

- Fix backwards linking functionality for search
- Fix classes.py
- Write csv files to database
- Add booking time and date
- Make database for appointments and fix appointments page
- Make code conform to UML diagram
- Get to milestone 2

Checklist for final iteration

- Recording of medication prescribed to patients

- Recording patient history at each visit (i.e recording notes about the visit)
- Maintaining history of past visits
- Rating

## **Week 10 (24/09/18 - 01/10/18)**

**25/09/18**

Tuesday standup and sprint review

- Ratings to profiles. Currently takes most recent rating
- Profiles have links to working centres and providers

**28/09/18**

Group decided to meet up during the mid semester break to discuss the project

- Improved display results; view centres and view providers
- Added ratings to profiles. Currently takes most recent rating
- Improved bookings; resolved time conflicts

We talked about how to save our data. The two options were to either implement a database or use a write file system. We decided to use databases.

## **Week 11 (01/10/18 - 08/10/18)**

**02/10/18**

Tuesday standup and sprint review

- Very big update to port the current code with database
- Added viewing appointment history as specified in the additional requirements

One of our group members dropped out from the course

## **Week 12 (08/10/18 - 15/10/18)**

**09/10/18**

Tuesday standup and sprint review

- Added specialist system from requirements
- Final exception testing and pytests for user stories



# Velocity Chart

