You are required to design, develop, test and deploy an application named ”ND Telemedicine App”. This is a web/mobile application that can be used by anyone, allowing patients to sign up, add their health information, make a profile, book an appointment with a GP through calendar, text chat with a Doctor, and view their prescribed medicine. User also can add their status such as fever, pain and so on. Doctors (or GP) can add their availability, chat with their client, prescribe and manage medicine, and view their patients’ health status. The app can have super admin user to manage both types of users. The application also can notify users for their appointment or medicine time. You can provide your own design/dashboard for each part of the app or even add your own innovation through the design. You can draw a wireframe to show your ideas beside the user story through sprint 0 and receive feedback from PO.

User Account created (from email and password) -> Phone verification (for notifications can decide to skip) and then -> profile creation (full name, dob, provide medical history or issues, or skip to do later or possibly have no current medical history/issues that lets you skip)

Add health information -> ask product owner (tutor) the limits and requirements of this task

| Story: #1 | User/Patient signs up |
| --- | --- |
| Priority(Low, Medium, High): | High |
| Effort (hours): | 5 |
| As a | User/Patient |
| I want | To make an account |
| So that I can | Log into the app |
| Acceptance Criteria | Criterion 1:  **Given** the provided user email is valid and doesn’t currently exist the database  **When** the user attempts to sign up  **Then** the user is prompted that the sign up is successful and is signed in  **And** the user is given the option to receive mobile notifications, by providing their number or skipping  Criterion 2:  **Given** the provided user email is invalid  **When** the user attempts to sign up  **Then** the user is prompted that the email inputted is invalid  Criterion 3:  **Given** the provided user email has been registered to an existing account  **When** the user attempts to sign up  **Then** the user is prompted that the email inputted has already been registered |

| Story: #2 | Patient books an appointment with their Doctor/GP |
| --- | --- |
| Priority(Low, Medium, High): | High (Consider timetables and availability) |
| Effort (hours): | 3 |
| As a | Patient |
| I want | To book an appointment with my doctor |
| So that I can | Have a visit with the doctors |
| Acceptance Criteria | Criterion 1:  **Given** that there is an available time slot for an appointment with their assigned doctor on the appointment calendar.  **When** the patient selects and books that time slot  **Then** the patient will be successfully booked in the database and will receive a confirmation email/sms and the doctor will be notified that an appointment with them has been booked.  Criterion 2:  **Given** that there is an available time slot for an appointment with any doctor on the appointment calendar.  **When** the patient selects that time slot a list of available doctors will be listed and the patient can pick one or let the system choose one for them. The patient will select their option and book that time slot.  **Then** the patient will be successfully booked in the database and will receive a confirmation email/sms and the doctor will be notified that an appointment with them has been booked. |

| Story: #3 | Doctor/GP creates account |
| --- | --- |
| Priority(Low, Medium, High): | High |
| Effort (hours): | 4 |
| As a | Doctor/GP |
| I want | To create an account as a doctor/GP |
| So that I can | Attend appointments with my clients |
| Acceptance Criteria | **Given** that a code has been sent to the doctor/GP’s email prior to the user registering on the app by the super admin  **When** the user registers  **Then** they should be able to register as a “Doctor/GP” not a regular user successfully. |

| Story: #4 | Patient making a profile |
| --- | --- |
| Priority(Low, Medium, High): | High |
| Effort (hours): | 3 |
| As a | Patient |
| I want | To make a profile |
| So that I can | Display necessary information to doctors |
| Acceptance Criteria | Criterion 1:  **Given** the patient has signed up  **When** the patient attempts to make a profile AND fill in the information for the profile creation  (below is the information patient provides to create their profile)   * their name, * a valid DOB, * provide their medical history (the patient can choose to provide medical history - this field of information is optional)   **Then** the patient is prompted that their profile has been created  AND the patient can view their profile |

| Story #5 | Doctor Setting Availability |
| --- | --- |
| Priority(Low, Medium, High): | High |
| Effort (hours): |  |
| As a | Doctor |
| I want | Set my availability hours |
| So that I can | Have my patients book appointments that work for me. |
| Acceptance Criteria | Criteria 1:  **Given t**hat the doctor has their profile setup  **And** has time available  **When** the doctor selects a time slot/s  **Then** the time slot in the database will be allocated to the doctor and the time slot availability will be set to false.  **[MOVED]** Criteria 1: (Seems to be more towards patient booking with the doctor)  **Given:** that a Doctor and patients profiles have been set up  **When:** a patient goes to book an appointment  **Then:** they should be able to select a time based on the Doctor's availability. |

| Story: #6 | Viewing Patients Previous Health Information |
| --- | --- |
| Priority(Low, Medium, High): | Low |
| Effort (hours): | 3 |
| As a | GP |
| I want | View patients previous health information |
| So that I can | Have relevant information to make a diagnosis. |
| Acceptance Criteria | Criterion 1:  **Given:** The GP has access to the patients profile  **When:** the GP looks up the patient in the database  **Then:** the user is prompted with the patients profile  **Given:** the patient has a profile  **When:** the GP selects which information of patient that want to access  **Given:** The patient has entered their previous health information  **When:** the user clicks “previous health information” on the patient's profile.  **Then:** the user views the patient's previous health information  Criterion 2:  **Given:** The patient doesn’t have a profile.  **When:** the GP attempts to search for patient  **Then:** the GP contacts the patient to check if they have created their profile.  Criterion 3:  **Given:** The patient hasn’t filled out the previous health information.  **When:** the GP attempts to view the patient's previous health information  **Then:** the GP exits the app. |

| Story: #7 | Viewing Prescription Information |
| --- | --- |
| Priority(Low, Medium, High): | Low |
| Effort (hours): | 2 |
| As a | Patient |
| I want | View my prescription |
| So that I can | Look up any side effects I may experience |
| Acceptance Criteria | Criterion 1:  **Given:** The user has been prescribed medication and the GP has uploaded that prescription to the patient's profile.  **When**: The user navigates the app to “View Prescription Medication”  **Then:** The user clicks on the tab to enter the page that lists all their prescribed medications  **Given:** Their GP has uploaded that prescription to the patients profile.  **When:** The user selects the medication they want to know the side effects of.  **Then:** The app will take the user to the page about that medication  **And:** The user can then click the provided url which will redirect the user to a website with all the information about the medication.  Criterion 2:  **Given:** The GP has not uploaded the prescription to the patient's profile.  **When:** The user was unable to view their prescribed medication details.  **Then:** The user will use the app's built in communication function to contact their GP to fix the issue of their prescription not being uploaded. |

| Story: #8 | Patient messages Doctor/GP through text chat |
| --- | --- |
| Priority(Low, Medium, High): | Low |
| Effort (hours): | 4 |
| As a | Patient |
| I want | To message my Doctor/GP |
| So that I can | Talk to my Doctor/GP |
| Acceptance Criteria | Criterion 1:  **Given** thatthe patient is assigned to a specific doctor from when they made an appointment with a Doctor/GP  **When** the patient messages their Doctor/GP  **Then** the user should be able to communicate with their Doctor/GP then the assigned Doctor/GP will receive a message notification  **AND** the Doctor/GP will be able to message the patient back. (Doctors aren’t able to initiate a conversation with the patient) |

| Story: #9 | Doctor removing availability |
| --- | --- |
| Priority(Low, Medium, High): | Medium |
| Effort (hours): | 4 |
| As a | Doctor |
| I want | To remove my availability for particular hours |
| So that I can | Attend to potential outside matters and cannot be available |
| Acceptance Criteria | Criterion 1:  **Given:** That the doctor is signed in  **And:** There is time that has been allocated  **When:** The doctor selects a time slot/s  **Then:** The time slot in the database that was allocated to the doctor will become unallocated and the time slot availability will be set to true. |

| Story: #10 | App notifying patient to take medicine |
| --- | --- |
| Priority(Low, Medium, High): | Medium |
| Effort (hours): | 3 |
| As a | Patient |
| I want | App to notify me |
| So that I can | Remember to take medicine |
| Acceptance Criteria | Criterion 1:  **Given:** The patient has been prescribed a medicine (the instructions - time interval for taking the medicine will be recorded by the system)  **AND**: the medicine is to be taken in time intervals  **When:** The time interval has past  **Then:** The patient is notified to take the medicine  (Ask tutor on setting the time intervals functionality - user wants the ability to manually adjust the time) |

| Story: #11 | App notifying patient to attend appointment |
| --- | --- |
| Priority(Low, Medium, High): | Medium |
| Effort (hours): | 3 |
| As a | Patient |
| I want | App to notify me |
| So that I can | Remember to attend the appointment |
| Acceptance Criteria | **Assume both criteria are logged in**  Criterion 1:  **Given:** The patient has a exiting booked appointment  **When:** The time is 1-2 (3 hours max prior) to the booked appointment time  **Then:** patient will be notified of the appointment - including the time of appointment  Criterion 2 (Goes into more detail):  **Given:** The patient is booking a doctors appointment  **When**: The patient has successfully booked the appointment  **Then:** patient will be notified of the appointment - including the time of appointment |

| Story: #12 | Patient canceling appointment |
| --- | --- |
| Priority(Low, Medium, High): | Low |
| Effort (hours): | 4 |
| As a | Patient |
| I want | Cancel a booked appointment |
| So that I can | Attend urgent matters |
| Acceptance Criteria | Criterion 1:  **Given:** The patient has an existing booked appointment  **When:** The patient cancels that booked appointment  **Then:** The system removes the appointment information  **And:** The system prompts the patient that the appointment has been canceled |

| Story: #13 | Patient rescheduling appointment |
| --- | --- |
| Priority(Low, Medium, High): | Low |
| Effort (hours): | 3 |
| As a | Patient |
| I want | reschedule a booked appointment |
| So that I can | Attend the appointment at another time |
| Acceptance Criteria | Criterion 1:  **Given:** The patient has a exiting booked appointment  **When:** The patient attempts to reschedule that booked appointment  **And:** The patient has selected an available time allocation for reschedule  **Then:** The system removes the appointment time from the initial time slot  **And:** the patient’s new appointment will be successfully booked in the database and will receive a confirmation email/sms and the doctor will be notified that an appointment with them has been rescheduled. |

| Story: #14 | Doctors prescribe medicine for their patient |
| --- | --- |
| Priority(Low, Medium, High): | Medium |
| Effort (hours): | 5 |
| As a | Doctor |
| I want | Prescribe medicine |
| So that I can | Provide my patients with medication for the given issue and a document that they can use physically at the GP |
| Acceptance Criteria | Criterion 1:  **Given:** The patient is allocated to the doctor  **When:** The doctor prescribes medicine for the patient  **Then:** The system creates a document with all the information necessary (includes the GP/doctor of the prescription, patient name, prescription info, etc.)  **And:** The systems inform the doctor that the prescription has been created  **And:** The patient can view the document in their prescription list |

| Story: #15 | Doctors viewing their patient’s health status |
| --- | --- |
| Priority(Low, Medium, High): | Medium |
| Effort (hours): | 2 |
| As a | Doctor |
| I want | View the patient’s profile |
| So that I can | Obtain information of the patient’s health status |
| Acceptance Criteria | Criterion 1:  **Given:** The patient is allocated to the doctor  **When:** The doctor views the patients’ profile  **Then:** The system displays the patients’ profile to the doctor  **And:** the doctor can view all information regarding the patient - includes, medical history, past appointment notes, prescription list, etc.  (Discuss with tutor - health status) |

| Story: #16 | Super Admin generate code |
| --- | --- |
| Priority(Low, Medium, High): | High |
| Effort (hours): | 5 |
| As a | Super Admin |
| I want | To generate codes |
| So that I can | Allow future doctors that have been employed at the GP to make their account |
| Acceptance Criteria | Criterion 1:  **Given:** That the super admin is signed into the system  **When**: The super admin clicks to generate a sign-up code  **Then**: The system should provide a generated code and store this currently existing code into the database, thus removing the previous code |