Login subsystem

- any one could access
- Users can Login
- Store token
- Sign up
- Parsing the Token

Search for testing sites (the main user will be users/residents)

- Any one could access the system
- View the list of testing sites
- searching for the testing facility by providing a suburb name, or the type of facility
- In the additionalIfo, user could see fields that indicate if the facilities provide on-site booking, testing
- In the additionalIfo, user could see fields of facilities' open/closed, as well as the waiting time

On-site Booking (the main user will be administrators/receptionists)

- Only stuff could access the system
- Only make booking for testing facilities allow booking for tests on site
- Administrators input all necessary information of resident
- indicate that they are registering for home testing
- (assuming write information into note fields)
- Once the booking is done, a PIN code will be generated and shown to user
- facility staff could check the booking status by input PIN(assuming that the resident does not have direct access to the online system).

On-site Testing (the main user will be healthcare workers)

- Only stuff could access the system
- The healthcare workers/administerer will conduct a brief interview of the user and based on the answer, fill a form on the system
- suggest the appropriate tests
- Create a new Covid test (put type here), you could find it in booking object.

```
{
    "type": "PCR",
    "patientId": "ecc52cc1-a3e4-4037-a80f-62d3799645f4",
    "administererId": "ecc52cc1-a3e4-4037-a80f-62d3799645f4",
    "bookingId": "f8d304a5-3706-453f-a2d4-7c383e73a659"
}
```

-
- (the type of covid test can be placed under the covid-test field of the "Booking" object)

Home Booking Subsystem

- Any one could access the system
- Has to login first（cannot chose the option without login）
- register for the testing through the system first（booking）
- indicate that they are registering for home testing

  (assuming write information into note fields)

- Once the booking is confirmed, the user will be given a QR code and a URL to connect for testing
- The QR code and URL will be stored in additionalIfo field
- Ask and Record if the user need to receive kits from site (indicated while registering for the test)
- an interface for the facility staff can be developed to scan the QR code and update the system that the users have received the RAT kit from the facility
- automatically emails and texts the URL to the user

A3

1.1- On-site Booking (the main user will be residents)

- Residents can check their current booking status through the 'profile', under current active bookings after login
- In profile, it shows all booking but users only can change the booking that is not expired, not be used(hasn't performed the test yet) and not be canceld
- Residents can modify venue or startTime(at least one) of booking after login
- When doing modification, the system will check the bookingId and see if it's valid to be modified
    - if the booking is used(user has done CovidTest), we cannot change it

- if the booking is canceled, we cannot change it
- if the booking has lapsed(the start date is earlier than today), we cannot change it
- if the booking is not onsite booking, we cannot change it
- System will check if the date and time is valid(the dateTime should be after today)
- If the residents would like to change their booking to a previous booking, they will be allowed to do so as long as the previous booking is dated at a future date.
- After undo changing, the history will be deleted from memonto
- Residents can cancel a booking.

1.2 - Booking modification through phone calls (assisted by operator/receptionist)

- function to check by PIN and bookingID to verify the resident's identity
- Verify the status of the booking
    - (confirm that it is a valid booking where users haven't gotten tested yet)
    - If the booking has lapsed
- Using same functions with 1.1, the differrence is it's assisted by receptionist

2. Taks2

- Administrator could view all bookings made by residents (divided into three categories - cancelled booking, modified booking, new booking)
- Administrator could delete any booking made by residents by input id.
- Administrator have an interface to modify booking. (including adding a new booking and modifing venue and time of a booking)
- The system will automatically notify all the admins working at the testing facilities of the updated booking, as well as the other testing facilities if the change is relevant to that facility.

(in our application, the notification will be send in real-time, when you switch an account to login and open the adminBooking windows, the notifycation will be shown.)