**Functional Requirements**

**Patient Requirements:**

1. A menu to login to the system
2. Username and password verification in login menu
3. Home page menu after patient successfully login to system
4. A button in home page menu to navigate to view testing history menu
5. View testing history menu that shows the patient’s Covid-19 test data and result in chronological order
6. A button to log out from the system

**Test Centre Officer Requirements:**

1. A menu to login to the system
2. Username and password verification in login menu
3. Home page menu after test centre officer successfully login to system
4. A button in home page menu to navigate to generate test report menu
5. Generate test report menu shows a list of all test that have been administered in the test centre that the officer is employed at are shown in chronological order

**Test Centre Tester Requirements:**

1. A menu to login to the system
2. Username and password verification in login menu
3. Test Centre Tester dashboard after successfully login to system
4. A sidebar in dashboard to navigate to record new test menu, update test result menu, and generate test report
5. A form in record new test menu with appropriate label and column to fill out patient data, patient type, and symptoms and a button to record the data
6. Update test result menu shows a list of test data in chronological order with a button to edit test result, the button will navigate to update test result page with appropriate form to fill out the result data and a button to update the test result
7. Generate test report menu shows a list of all test that have been administered in the test centre that the officer is employed at are shown in chronological order

**Test Centre Manager Requirements:**

1. A menu to login to the system
2. Username and password verification in login menu
3. Test Centre Manager dashboard after successfully login to system
4. A sidebar in dashboard to navigate to view test kit menu, manage test kit stock menu, register test centre menu, view test centre menu, view test centre officer menu, record test centre officer, record tester menu, generate test report
5. View test kit menu shows a list of all test kit that the test centre has and its stock
6. Manage test kit menu that includes a list of all test kit available with its stock, a button to input new test kit, and a button to update test kit details
7. Register test centre menu that includes a form with appropriate label and column to fill out test centre data and a button to register the test centre
8. View test centre menu shows a list of all recorded test centre data in database
9. View test centre officer menu shows a list of all test centre officer (regardless of position) that is employed in the manager’s test centre
10. Record test centre officer menu that includes a form with appropriate label and column to fill out test centre officer data, username verification, and a button to record the officer data to database
11. Record tester menu that includes a list of test centre officer (with the specific position of ‘officer’) and a button to update the officer position to tester
12. Generate test report menu shows a list of all test that have been administered in the test centre that the officer is employed at are shown in chronological order

**Non-functional Requirements**

1. Correctness – all the information that is recorded to the system and provided by the system must be accurate, complete, and up-to-date. To support this requirement, the system must have a data verification every time a data is about to be recorded to the database.
2. Efficiency – the system should be lightweight and does not require extensive amount of hardware resources to perform a function.
3. Privacy of information – personal patient and officer data that is stored in the database must be properly consent and regulated.
4. Integrity – the system must control unauthorized person from accessing and changing the data. The only one who can record and update test centre officer data and position is the manager. The only who can record and update patient’s test data and test result is the test centre tester.
5. Usability – the system should be easy to learn, understand, and operate all the features. To support this requirement, a good design for the website with appropriate icon for buttons and menu should be implemented.
6. Reliability – the system should perform all its functions as intended without failure.