# **Functional requirements**

1. User is prompted to log into the application with his account.

1.1. If the user does not have an account, the application must allow the user to choose to register with his particulars.

1.2 After the user has logged in, he can choose to log out of his account.

2. Users must be able to view the names of clinics in list form.

3. At the homepage, the application must prompt the user to allow the application access to his location.

3.1. If user allows application access to his location, application must show a map consisting of CHAS clinics in a maximum radius of 3 kilometres from the user’s location

3.2. If user does not allow application access to his location, the application must show a map consisting of all possible locations of CHAS clinics.

4. User must be able to query the location of specific CHAS clinics on the map, via the following:

4.1.1. Clinic name

4.1.2. Clinic address

4.1.3. Clinic contact number

4.2. The user can choose to query the clinic via the clinic list.

5. User must be able to interact with the map by using a single finger to drag the map around.

6. User must be able to view more details of a clinic, displayed as a marker on the map, when he/she clicks on it. The user can also view more details by selecting a clinic from the list of clinic names. These details are:

6.1. Clinic name

6.2. Clinic address

6.3. Clinic operating hours

6.4. Whether the clinic is currently open or closed according to user’s phone system time

6.5. Clinic contact number

6.5.1. When a user clicks on the number, the application must prompt the user to allow the application access to make phone calls.

6.5.1.1. If the user allows access, the application must be able to make a phone call to the clinic.

6.5.1.2. If the user does not allow access, the application must show an informative message telling the user that permission must be granted in order to make a phone call.

6.6. If a user is logged in, the application must allow him to bookmark his favourite clinic if he chooses to.

7. User must be able to view reviews and ratings for the clinic

7.1. When a user clicks on the button to rate/review the clinic, if he is not logged in, the application must prompt the user to log in before he is allowed to give a rating score or leave a review.

7.2. If user is already logged in, he can choose to do the following:

7.2.1. Leave a rating for the clinic

7.2.2. Leave a review for the clinic

## **Non-functional requirements**

1. Compatibility – The application must be compatible with phones running Android 6.0 and above.

2. Performance – The application must fetch clinic data details within 500 milliseconds when a user clicks on any clinic.

3. Scalability – The application must be able to add and update new clinics that are recently built.

## **Data dictionary**

| **Term** | **Description** |
| --- | --- |
| Users | A person who uses the application to look for clinics. |
| Map marker | A symbol to identify the location of a clinic on the map. |
| Rating | An indication of users’ satisfaction on a clinic, from 1 to 5 stars, with 1 being very unsatisfactory and 5 being very satisfactory. |
| Review | A short piece of text containing comments from users describing their experience at a clinic. |
| Bookmark | To keep a record of the item that will allow for easy access in the future. |
| Register | To put or record personal details into an official list or stored data. |
| Query | To search or seek a particular information. |