

Functional Requirements

1. The application must allow the user to login with their Google account.
 - 1.1. If this is the user's first time logging in with their Google account,
 - 1.1.1. The application will ask for the user's profile details:
 - 1.1.1.1. The user's name
 - 1.1.1.2. The user's age
 - 1.1.2. The application will ask for the user's smoking habits:
 - 1.1.2.1. How many cigarette sticks the user smokes per day
 - 1.1.2.2. How long the user have been smoking in day/month/year:
 - 1.1.3. The application will ask for the user's quitting goals:
 - 1.1.3.1. The starting date of the user's smoking cessation
 - 1.2. Upon logging in, the application must have a sign out option.
2. The application must request for permission before accessing the user's location via GPS.
 - 2.1. If permission is denied by the user, the application must show a map consisting of all the Quit Centres.
 - 2.2. If permission is granted, the application must show a map consisting of Quit Centres nearest to the user up to a maximum distance of 5km radius.
3. The application must allow users to search the location of specific Quit Centres on the map by:
 - 3.1. The Postal code of the Quit Centre.
 - 3.2. The Telephone number of the Quit Centre.
 - 3.3. The Name of the Quit Centre.
 - 3.4. Users dragging the map manually with 1 finger to pan the map around.
4. The application must display more detailed information of a Quit Centre when the user taps into any of the map markers shown on the map.
 - 4.1. The application must display the Quit Centre's full name.
 - 4.2. The application must display the Quit Centre's full address.
 - 4.3 The application must display the Quit Centre's telephone number.
 - 4.4 The application must display the Quit Centre's operating hours.
 - 4.4.1. When the user taps on the operating hours
 - 4.4.1.1. The application must display if the Quit Centre is currently open according to system time.

6. The application must display a counter which shows the number of days the user has not smoked.
7. The applications must have a dashboard
 - 7.1. Provides option to show if you have relapsed
 - 7.2. Presents statistics such as heart rate and oxygen levels

Non-Functional Requirements

1. The application must be compatible with phones running Android 6.0 and above and iOS.
2. The application must fetch Quit Centre data details within 500ms when a user taps into any Quit Centre.
 - 2.1. If the data fetching fails, the application must retry up to 3 times before displaying an informative error message.
3. The application must be operable with either hands.
 - 3.1. User must be able perform the following functions single handedly.
 - 3.1.1. Search for Quit Centre
 - 3.1.2. Pan the map

Data dictionary

A set of terms matching with a description of the term in the context of the application.

General terms

Term	Description
Map marker	An indication of where the Quit Centre is, on the map.
User	A person who uses the application to look for Quit Centre.
Search	Search for Quit Centres based on user's given input.
Km	A unit of length in the metric system: Kilometer.
Ms	A thousandth of a second.
Counter	A timer displaying days and hours smoke-free, to capture your progress.

