**Functional Requirements**

1. The app must allow the user to login with their Google account
   1. After logging in, the app must allow users to sign out whenever they want
2. The app must request for permission to access the user’s location
   1. If permission is granted by the user, the app must show a map of all hawker centers within a 5km radius of the user’s location
      1. The hawker centres must be listed in an ascending order of distance from the user’s location
   2. If permission is not granted by the user, the app must show a map of all hawker centres in Singapore
      1. The hawker centres must be listed in ascending alphabetical order
3. The app must give users an internal locus of control over the hawker centres shown
   1. Users must be able to search for specific hawker centres with:
      1. The name of the hawker centre
      2. The address of the hawker centre
   2. Users must be able to drag the map manually to look at hawker centres around Singapore
   3. Users must be able to scroll through the list of hawker centres manually
4. The app must show detailed information of a hawker centre when users tap into any of the hawker centres shown
   1. The app must display up to 4 most recent user uploaded photos of the hawker centre if available
      1. When the user taps on the photos section, the app must display all available user uploaded photos in ascending order of age of photos
         1. Every photo displayed must display the name and avatar of the uploader
   2. The app must display a short description of the hawker centre
   3. The app must display the full address of the hawker centre
   4. The app must display the operating hours of the hawker centre
      1. The app must display if the hawker centre is open, relative to the current time of the user’s phone
      2. When a user taps on the operating hours, the app must display the operating hours of the hawker centre everyday from Monday to Sunday
   5. The app must display the total number of food stalls at the hawker centre
   6. The app must display a snippet of the location of the hawker centre on the map
   7. The app must display a breakdown of the user submitted ratings consisting of the hygiene, seating variety and quality of the food
   8. The app must display the latest user submitted review of the hawker centre if available
      1. When the user taps on “see all”, the app must display all available user reviews in ascending order of age of review
      2. Every review must be displayed with the user’s name, profile picture and their overall rating
5. The app must allow users to submit a rating out of five stars on the hygiene, seating, variety and food quality of a hawker centre.
   1. The app must allow users to submit an optional review along with the ratings.
6. The app must allow users to upload a maximum of 1 photo at a time of a hawker centre.
   1. The app must allow users to take a photo for upload.
      1. After taking a photo, the app must allow the user to retake the photo if the user wants to
   2. The app must allow users to choose a photo from the gallery for upload.
7. The app must allow users to share hawker centre details via any app of the user’s choice through the “share via” menu.

**Non-Functional Requirements**

1. The app must be able to run on android phones with Android 6.0 and above.
2. The app must fetch hawker centre details within 500ms when a user taps into any hawker center.
   1. If the app is unable to fetch data within 500ms, it should retry up to three more times
3. The user must be able to learn how to use the application within 5 minutes.
4. 80% of the users must be able to complete representative tasks in less than 5 minutes without requiring assistance.
5. The app should maintain consistency of the user interface design despite the minor changes in information provided by the API.
6. The app must provide the user with informative feedback after every action is performed.
7. The app must have an availability of 99%.
8. The app must be 99% operational from the point of launching.
9. The app must be able to support modular feature upgrades in the future.
10. The app must have monthly updates with updated datasets and bug fixes if any.
11. The app must transmit sensitive information such as login details and other user information via the HTTPS protocol
12. No sensitive information must be sent to anywhere other than the app database on Google Cloud FireStore.