

Non-Functional Requirements:

1. The interface of the app shall be readable and intuitive for the user to learn to operate, prepare inputs for, and interpret outputs of the app.
 - 1.1. The interface of the app shall be in Arial font.
 - 1.1.1. The app shall have a blinking cursor to allow the user to know where their cursor is.
 - 1.1.2. The app shall prompt the user to key in relevant information when first logged in.
 - 1.2. The texts provided by the app shall be in Arial font.
 - 1.2.1. The texts provided by the app must be clear and allow the user to read and understand it within 5seconds.
2. The app shall perform its functions with availability and accuracy.
 - 2.1. The app shall scan and process any uploaded images within 10seconds.
 - 2.1.1. For files larger than 10MB, the app shall scan and process the image within 20seconds.
 - 2.2. The app must have an inbuilt camera function rather than use the camera app on the user's phone.
 - 2.2.1. The image taken by the app's inbuilt camera should be editable.
 - 2.3. The nutritional information provided by the app should be correct to the nearest whole number.
 - 2.4. The nutritional information provided by the app should be editable by the user.
 - 2.5. The app shall respond within 5ms for each button on the interface that the user clicks.
3. The app must be able to accommodate large volumes of users and data over time.
 - 3.1. The app shall support up to 10,000 users simultaneously without crashing.
 - 3.2. The app shall support up to 10,000 API calls simultaneously without crashing.
 - 3.3. The app shall support up to 10,000 responses to users.
4. The app shall provide a reliable user experience for the user with minimal disruptions to the user.
 - 4.1. The app shall have a maximum downtime of 6hours during maintenance periods.
 - 4.1.1. The app shall notify the reader of any impending updates or maintenance.

- 4.2. The app shall handle up to 10,000 users simultaneously without any slowdown in performance.
- 4.3. The app shall allow users to report any faults, bugs, or significant errors such as misspellings, missing buttons, or glitches.
- 5. The app shall be updatable and maintainable after deployment.
 - 5.1. The app shall mainly run on the Android OS.
 - 5.1.1. The app should be compatible with wide range of Android devices including different screen sizes, resolutions, and versions of Android OS.
 - 5.2. The app shall receive monthly maintenance to ensure its core functions are running well without failure.
 - 5.3. The app shall receive updates whenever the developers have tried and tested the updates amongst themselves to ensure quality and reliability before releasing them to the users.
- 6. The app shall ensure the utmost protection and privacy of its users' data.
 - 6.1. The app shall be fitted with the latest security protocols to prevent security breaches.
 - 6.1.1. The app shall receive monthly security updates.
 - 6.2. The app shall secure user data entry points to ensure confidentiality and integrity of personal information.
 - 6.2.1. The app shall request for two-factor authentication upon a user's log in onto a new device.
 - 6.2.2. When entering the password, the app shall mask the password as black dots and provide the user with the option to unhide the password.
 - 6.3. The app must comply with relevant data protection laws such as Singapore's PDPA.
 - 6.3.1. The app shall request to collect user data solely for the purpose of enhancing the user experience and must not release these data to external third parties.