

Functional Requirements

1. User shall be able to register an account and sign into the application:

- 1.1. Users must create an account by entering their email/phone number, username, and password.
- 1.2. Users shall log into their account by entering their respective passwords.
- 1.3. Users are able to change their password with authentication
- 1.4. If the user wishes to change their password, the user will be able to do so through the application settings.
- 1.5. Users will be able to change their username if the desired username is not already taken by another user.

2. Users shall be able to personalize their account profiles:

- 2.1. Users shall be able to customize their own profiles
 - 2.1.1. Profile picture
 - 2.1.2. Description
 - 2.1.3. Username

3. Users shall be able to search for nearby toilets:

- 3.1. Users shall be able to search for nearby toilets based on their location
- 3.2. App will provide navigation guidance to the selected toilet
- 3.3. App will display toilet pictures, description, and toilet rating (1 - 5 stars)

4. Users shall be able to rate and review toilets:

- 4.1. Users shall be able to rate toilets on a scale (1 - 5 stars) based on their experience
- 4.2. Users shall be able to rate the cleanliness/design/maintenance and overall user satisfaction
- 4.3. Users shall be able to post detailed reviews and provide feedback of their overall experience
- 4.4. Users can like other users' reviews

5. Users shall be able to edit their reviews:

- 5.1. Users shall have the option to edit their past reviews
- 5.2. Users shall have the option to delete their past reviews

6. Users shall be able to favorite toilets:

- 6.1. Users shall have the option to add a toilet to their favorites list
- 6.2. Users shall have the option to remove a toilet from their favorites list

7. Users shall be able to add new toilets:

- 7.1. Users shall have the option to submit new toilets to the app
- 7.2. Users shall have the option to upload images of the toilet to the app

8. Users shall be able to view their profile:

- 8.1. Users shall be able to view a history of their past reviews and ratings

9. Users shall be able to filter the type of toilets:

- 9.1. Users shall be able to filter the type of toilets
 - 9.1.1. Type of toilets (Gender, Handicap, Child-friendly)
 - 9.1.2. District (Central, North-East, North-West, South-East, South-West)
 - 9.1.3. Distance from user's current location (within 500m)
 - 9.1.4. Rating (1-5 stars)

10. Users shall be able to get directions to their selected toilet:

- 10.1. Application shall navigate users by providing directions to the selected toilet

Non-functional Requirements

1. User experience:

1. App must have an intuitive and user-friendly interface
2. Navigation to different sections must be seamless and intuitive

2. Performance:

1. App will be able to handle x number of concurrent users even during peak usage (e.g., during breakfast/lunch/dinner time)
2. New toilets/Toilet ratings will be updated in real-time
3. Requests will be processed within 3 seconds