Nonfunctional Requirements

1. Usability

1.1. 85% of the users must be able to find the details of the nearby car park within two minutes.

2. Performance

- 2.1. The system supporting 5000 users per hour must provide 10 second or less response time in the application, including the rendering of text and images.
- 2.2. The system must display the user's search results of car parks within 5 seconds.

3. Security

- 3.1. The system must make use of a hashing algorithm to encrypt the user's password.
- 3.2. The system must only process requests for personal data with an authentication token.
 - 3.2.1. The system must issue an authentication token to the user when the user successfully logs in.

4. Reliability

- 4.1. The application must load within 10s after launching the application.
- 4.2. The system must perform without failure in 95 percent of use cases during a month.

5. Maintainability

5.1. The mean time to restore the system (MTTRS) following a system failure must not be greater than 10 minutes. MTTRS includes all corrective maintenance time and delay time.

6. Availability

6.1. The web dashboard must be available to SG users 99.98 percent of the time every month during business hours GMT.

7. Scalability

7.1. The system must be scalable enough to support 1,000 visits at the same time while maintaining optimal performance.

8. Compatibility

- 8.1. The application must support devices of the following versions:
 - iOS:

- Minimum Version: IOS 15

- Recommended Version: IOS 16

- Android:

- Minimum Version: Android 11

- Recommended Version: Android 13

9. Localization

9.1. The system must be able to display in 4 official languages of Singapore.