

5. Other Nonfunctional Requirements

5.1 Performance Requirements

- 5.1.1** Each page must load within 3 seconds.
- 5.1.2** The system must be able to calculate the fare cost of a route within 3 seconds.
- 5.1.3** The system must be able to synchronize data to the online database within 3 seconds.

5.2 Usability Requirements

- 5.2.1** The system must display error messages that allow the user to know what went wrong when an error occurs. 75% of the users must be able to understand the error and not repeat the same flow of events.
- 5.2.2** 80% of first-time users must be able to add their first trip to the app within 2 minutes.
- 5.2.3** Users must be able to choose between a light and dark theme that all UI elements must abide to.
- 5.2.4** The app must not have any color-coded UI elements. Any differences must be displayed using symbols or design instead. This accessibility feature is color blind friendly.

5.3 Security Requirements

- 5.3.1** The system must be able to send a verification link to the user's email for confirmation.
- 5.3.2** The system must use encryption when saving sensitive details such as a user's password.
- 5.3.3** The system must be able to allow users to reset their password in case they forget it.

5.4 Reliability Requirements

5.4.1 The system must follow data visualisation standards when displaying user analytics. (Example: pie chart adding up to 100% or have the correct 'slices' corresponding to the ratios of the values it presents)

5.4.2 The system must be able to show estimated prices 95% of the time.

5.5 Business Rules

5.5.1 Users are required to login and authenticate themselves with their own account before accessing the website services.

5.5.2 Users must be verified before they are allowed to change their login credentials.