

Deliverable #1 : Software Requirement Specification (SRS)

SE 3A04: Software Design II – Large System Design

Tutorial Number: T01

Group Number: G4

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1 Introduction

1.1 Purpose

The purpose of this Specification is to maintain a reference towards the project goals, constraints, and requirements. This ensures that all ambiguity within the project is eliminated, and that all crucial requirements of the project are clearly documented. The specification will be consistently referenced throughout the project, and forms the basis on which the final product will be built. The intended audience of the SRS is for the developers of the product to reference, as well as the client to approve.

1.2 Scope

The name of this product will be “Ridelink”. The software will provide a service to customers of the taxi company, allowing them to conveniently set up and join carpools. Users will be able to offer to carpool from their taxi, or join a carpool heading to the same destination. This allows users to save money on taxi fares and the taxi company to save time and fuel, and attract more customers. This app also offers users the opportunity to participate in a fun “Wordle Wednesday” challenge, where they will be rewarded with a discounted fare for entering the word of the day each Wednesday.

1.3 Definitions, Acronyms, and Abbreviations

SRS - System Requirements Specifications

BE - Business Event

VP - View Point

S_m - System Response

E_m - Environment Reaction

app - application

1.4 References

[1] City of Toronto, "Taxis and limousines," City of Toronto, 20-Dec-2022. [Online]. Available: <https://www.toronto.ca/city-government/public-notices-bylaws/bylaw-enforcement/taxis-and-limousines/>. [Accessed: 20-Feb-2023]

[2] Poparide special offer. HI Canada. (n.d.). Retrieved March 4, 2023, from <https://hihostels.ca/en/promo/poparide: :text=Poparide>

[3] N. Babich , "22 basic UX laws that every designer should know," Shopify, 20-Aug-2019. [Online]. Available: <https://www.shopify.com/ca/partners/blog/ux-laws: :text=Based>

[4] "By-law no. 575-2016 - toronto." [Online]. Available: <https://www.toronto.ca/legdocs/bylaws/2016/law0575.pdf>. [Accessed: 05-Mar-2023].

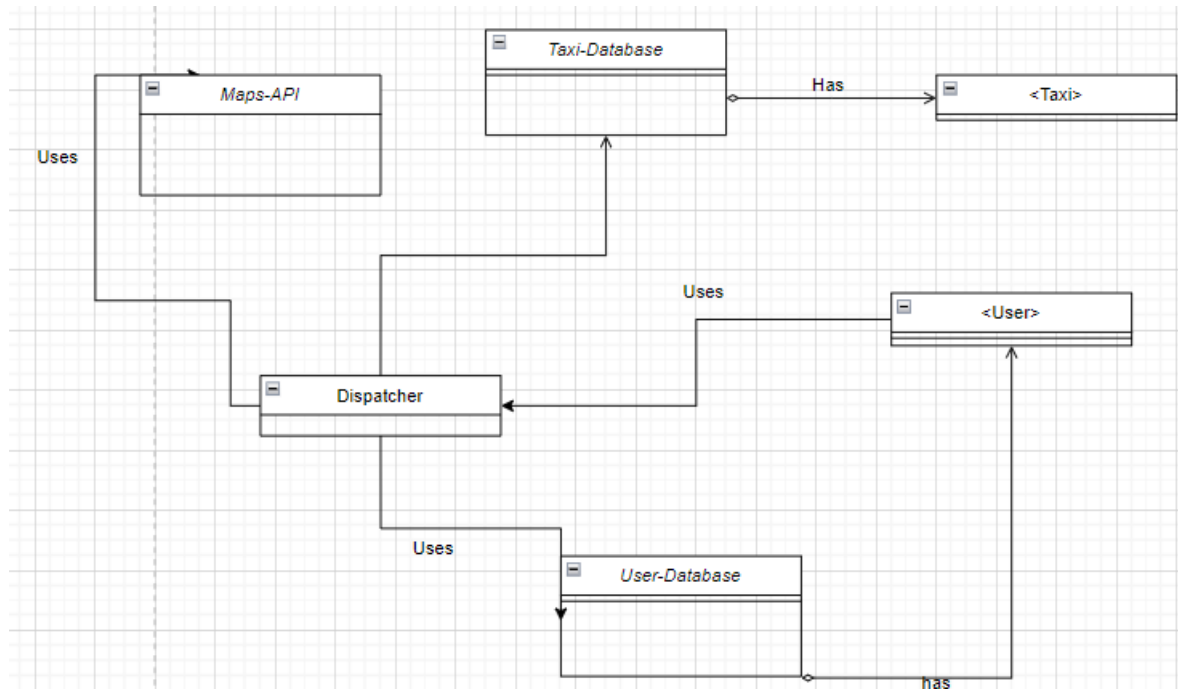
1.5 Overview

This SRS contains the expected use and requirements that shape this project. These requirements are represented in the following sections which will describe the Product Perspective, Functional and Nonfunctional Requirements, User Characteristics, and important assumptions/constraints. The next sections will be displayed in the following order. Overall Description, which describes the overall function, assumptions, and constraints of the project, as well as the expected client base. Use Case Diagram which gives a visual representation of how the most important application functions will be handled. Functional requirements which are written to express the required performance of the product in a non-technical way, and NonFunctional requirements which outline the system's capabilities and crucial features regarding appearance, usability, security, and ethics.

2 Overall Product Description

2.1 Product Perspective

This product provides a carpooling service, similar to other products on the market, such as *Poparide*² which allows drivers to find carpoolers to cover gas costs. However, our service differs in that it is specifically designed for taxi companies to use. Thus, it contains other important features, such as passenger rating, and a dispatcher to store information of all registered taxis in our client company. This product is not totally independent. It relies on the google maps API to determine routes and it exists as part of a service provided by the client taxi service.



2.2 Product Functions

- **Match Facilitation:** The purpose of this application is to facilitate matches amongst people who are using the taxi service, and are heading to similar destinations. The goal of this application is for the users to share the taxis, allowing them to save money by splitting the fare. This will be accomplished through a main "Dispatcher" that creates matches in accordance to provided information.
- **Application Modes:** The application offers a "Request Taxi Carpool" mode and an "Offer Taxi Carpool" mode.
 - The "Request Taxi Carpool" mode shall provide the customer with the ability to specify their destination and other search criteria and send the input to the dispatcher to find matches. Upon the customer making a selection, the system shall notify the "Dispatcher" to forward the request to the offering rider.
 - The "Offer Taxi Carpool" mode shall provide customers with the feature to scan a code representing the taxi ID, which would be placed inside the taxi. After scanning the code, the customer must enter details about their offer, such as destination, taxi ID, and the maximum number of customers to share the ride with. The offer will be sent to the "Dispatcher" for processing. The customer must wait for requests after making the offer.
- **Creative Feature:** The application provides discount to Wordle Wednesday winners.

2.3 User Characteristics

This application provides a simple matching service, to allow taxi users to save money by splitting taxi fares. It is targeted for the regular client base of the taxi company, including students, adults,

and seniors. The app is also designed in accordance of

Educational Level: To use the app as such there is no specific level of education required. A basic understanding of smartphones and other technologies, however, might be useful.

Experience: The users of the app don't necessarily need to have prior experience of traveling in a taxi - they can be traveling for the first time or be a frequent user.

Technical expertise: Experience using a smartphone/smartphone application

2.4 Constraints

The cost to create the application shall be within the developing team's budget. In the case of our team, the application must be achievable with no initial investments.

The timeframe for the development of the application is until the week of April 10.

The fares must be calculated such that the taxi company profits while the taxi riders save from carpooling.

The fares must follow the method of taxi-fare calculation in accordance to the bylaws of the city it operates in. Additionally, the fares must include appropriate taxes (13% in Toronto).

2.5 Assumptions and Dependencies

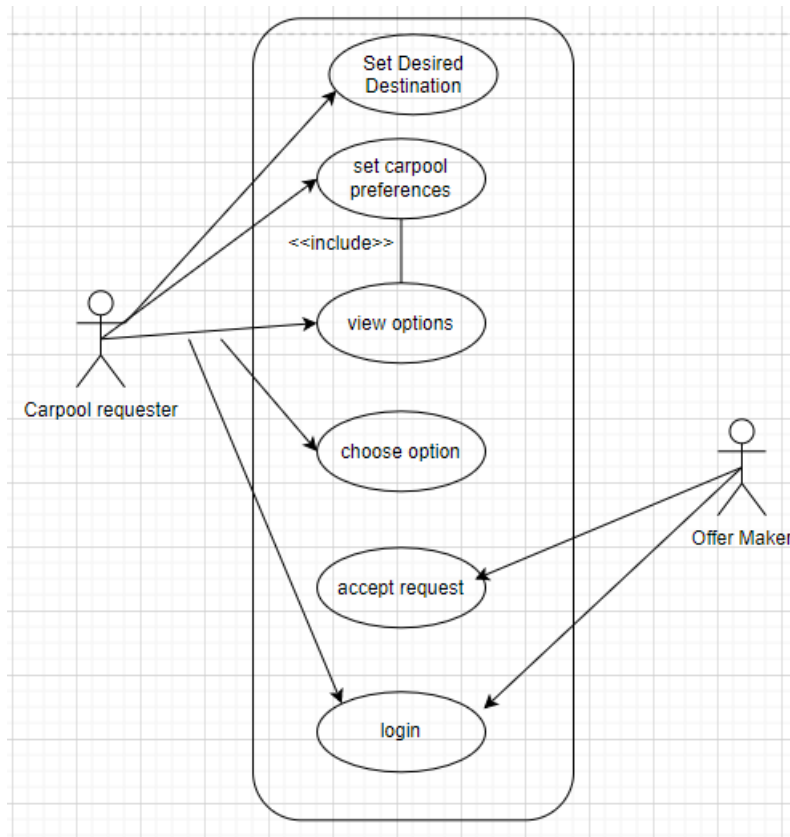
The following system properties are assumed, and changes to these assumptions will accordingly change the system requirements:

The system will be built as a native application for the android operating system, specifically targeting typical modern smartphones (i.e. pocket-sized mobile devices with single screens, camera, and GPS capabilities). The system also depends on the continued support and open access of the map-providing service used (i.e. Google maps API) as this would be required for allow customers to track the taxi route and present potential routes when requesting or offering taxi carpools.

2.6 Apportioning of Requirements

N/A

3 Use Case Diagram



This is an example of the standard procedure of requesting to join a carpool. It requires the requester to choose their option, as well as the offer maker to accept. The app must handle this by authenticating the users and maintaining a line of communication between each user, as well as updating the databases for changes to carpool availability.

4 Highlights of Functional Requirements

Business Events:

- User opens the app to create an account
- User uses the app to edit their account
- User uses the app to remove their account
- User uses the app to offer a taxi carpool
- User uses the app to request a taxi carpool
- User arrives at target destination

- User enters submission for "Wordle Wednesday"

BE1: User opens the application to register for an account.

Pre-condition: the user has the application installed on an Android smartphone.

VP1.1 - Rider

Main Success Scenario:

E1: User opens the account and selects sign-up for an account.

S1: The system prompts the user to input their personal information.

E2: The rider provides the required information and submits.

S2: The system validates the format/validity of the inputted information.

S3: The system creates an account, and saves the user's information in its database.

Secondary Scenario:

S2.1: The format of the information provided is not valid or the requirements are not met.

1. System identifies the information that was not validated and prompts the user to re-enter.
2. User re-enters the information and submits.

VP1.2 - Legal team

S2: The system presents the user with a consent form that outlines the terms and conditions for collection and use of user information.

Global Scenario:

Pre-condition: the user has the application installed on an Android smartphone.

Main Success Scenario:

E1: User opens the account and selects sign-up for an account.

S1: The system prompts the user to input their personal information.

E2: The rider provides the required information and submits.

S2: The system validates the format/validity of the inputted information and presents the user with a privacy policy consent form.

E3: The user accepts the terms and conditions.

S3: The system creates an account, and saves the user's information in its database.

Secondary Scenario:

S2.1: The format of the information provided is not valid or the requirements are not met.

1. System identifies the information that was not validated and prompts the user to re-enter.
2. User re-enters the information and submits.

E3.1: The user doesn't accept the terms and conditions.

1. System fails to create an account and displays a message.

BE2: User uses the app to edit their account

Pre-condition: The user has the application downloaded on their Android smartphone and possesses an account.

VP2.1 - Rider

Main Success Scenario:

E1: User selects edit account.

S1: The system presents the user with their profile information.

E2: The taxi rider enters the edited information.

S2: The system displays the changes on its interface.

E3: The user submits the changes.

S3: The system validates the format of the newly inputted information.

S4: The system updates the rider's information in its database and shows a success message.

Secondary Scenario:

S3.1: The format of the information provided is not valid or requirements are not met.

VP2.2 - Legal Team

S3: The system must check that the user's age is above 18 years old.

1. System identifies the information that was not validated and tells the user.
2. User re-enters the information and submits.

Global Scenario:

Pre-condition: The user has the application downloaded on their Android smartphone and possesses an account.

Main Success Scenario:

E1: User selects edit account.

S1: The system presents the user with their profile information.

E2: The taxi rider enters the edited information.

S2: The system displays the changes on its interface.

E3: The user submits the changes.

S3: The system validates the format of the newly inputted information. It also ensures that the user is of legal age and not a minor.

S4: The system updates the rider's information in its database and shows a success message.

Secondary Scenario:

S3.1: The format of the information provided is not valid or the age requirements are not met.

1. System identifies the information that was not validated and tells the user.
2. User re-enters the information and submits.

BE3: User uses the app to delete their account.

Pre-condition: The user has the application downloaded on their Android smartphone and possesses an account.

VP3.1 - Rider

Main Success Scenario:

E1: The rider uses the app to delete their account.

S1: The application displays a confirmation message.

E2: The user confirms their action.

S2: The application removes the user's information and account from its database.

Secondary Scenario:

E2.1: The user cancels their action.

S2.1 The application aborts the action and redirects the user to the home directory

VP3.2 - Marketing Team

Pre-condition: None

S3: The system asks the user to provide the reason behind their decision to delete their account.

E3: The user selects the reason.

S4: The marketing team uses the feedback to ensure less users leave the application for the provided reason.

Global Scenario:

Main Success Scenario:

E1: The rider uses the app to delete their account.

S1: The system displays a confirmation message.

E2: The user confirms their action.

S2: The system removes the user's information and account from its database.

S3: The system presents the user with a feedback form.

E4: The user selects the reason.

S4: The feedback is saved for the marketing team's assessment.

Secondary Scenario:

E2.1: The user cancels their action.

S2.1 The application aborts the action and redirects the user to the home directory.

BE4: User uses the app to request to join carpool. (**MODIFIED**)

Pre-condition: The customer is registered on the application.

VP4.1 - Rider

Main Success Scenario:

E1: User requests to join carpool.

S1: System prompts the user to enter their destination location and search parameters.

E2: User enters destination location and search parameters.

S2: System presents the user with potential carpool offers.

E3: User selects a carpool offer.

S3: System sends request to the offering rider.

VP4.2 - Accounting Team

S2: The system must verify that the taxi company will not be losing money by offering the taxi sharing service prior to presenting the user with potential offers.

Global Scenario:

Pre-condition: The customer is registered on the application.

Main Success Scenario:

E1: User requests to join carpool.

S1: System prompts the user to enter their destination location and search parameters.

E2: User enters destination location and search parameters.

S2: System checks to verify that the taxi company will not be losing money by offering the taxi sharing service prior to presenting the user with potential offers.

S3: System presents the user with potential carpool offers.

E3: User selects a carpool offer.

S4: System sends request to the offering rider.

BE5: User uses the app to offer a taxi carpool.

Pre-condition: The user is registered on the application and is in the taxi.

VP5.1: Rider

Main Success Scenario:

E1: The offering rider scans QR code that has the taxi ID.

S1: System prompts the offering rider to input relevant information.

E2: The offering rider enters ride details.

S2: System dispatcher processes offer and presents matches to requesting riders.

E3: A requesting rider chooses the offer.

S3: System presents the match to the offering rider, indicating potential changes to their trip.

E4: Offering rider accepts the request.

S4: System notifies the requesting rider and adds them to the carpool.

Secondary Scenario:

E3.1: No requesting rider chooses the offer.

1. The offer expires and is no longer available to the dispatcher.

E4.1: Offering rider rejects the request.

1. The dispatcher continues looking a match until the offer expires.

VP5.2: Accounting Team

Main Success Scenario:

S4: System must indicate that it is optimal to accept the request.

Secondary Scenario:

S4.1: System indicates that it is not optimal to accept the request.

1. The offering rider rejects the request.

2. The system continues looking for a match until the offer expires.

Global Scenario:

Pre-condition: The user is registered on the application and is in the taxi.

Main Success Scenario:

E1: The offering rider scans QR code of the taxi ID.

S1: System prompts the offering rider to input relevant information.

E2: The offering rider enters ride details.

S2: System dispatcher processes offer and presents matches to requesting riders.

E3: A requesting rider chooses the offer.

S3: System presents the match to the offering rider, indicating potential changes to their trip.

S4: System must indicate that it is optimal to accept the request.

E4: Offering rider accepts the request.

S5: System notifies the requesting rider and adds them to the carpool.

Secondary Scenario:

E3.1: No requesting rider chooses the offer.

1. The offer expires and is no longer available to the dispatcher.

S4.1: System indicates that it is not optimal to accept the request.

1. The offering rider rejects the request.

2. The system continues looking for a match until the offer expires.

E4.1: Offering rider rejects the request.

1. The dispatcher continues looking a match until the offer expires.

BE6: User arrives at target destination (**MODIFIED**)

Pre-condition: The riders have gone through the match-making process and have been on the same taxi.

Main Success Scenario:

VP6.1 - Rider

E1: Riders reach their destination.

S1: System displays calculated fare for end of ride.

S2: System presents the rider with a form to rate their ride sharers.

E2: User enters rating.

S3: System calculates new rating average for rider that was rated.

S4: System updates the users' profile with their new rating.

S5: System deactivates carpool offer for future carpool requesters

Secondary Scenario:

E2.1: The user doesn't provide a rating.

1. The system keeps presenting them with the form and doesn't allow them to use the app in any other way until the rating is provided.

VP6.2 - Accounting Team

S1.1: The system tracks the amount of money paid to the taxi company and the amount saved through ride sharing.

VP6.3 - Marketing Team

S5: if the rating of a rider drops below a threshold, the system warns them about account revocation.

1. After 3 warnings, the account is revoked.

Global Scenario:

Pre-condition: The riders have gone through the match-making process and have been on the same taxi.

Main Success Scenario:

E1: Riders reach their destination.

S1: System displays calculated fare for end of ride.

S2: System tracks how much the taxi company was paid for the trip and how much the riders saved.

S3: System presents the rider with a form to rate their ride sharers.

E2: User enters rating.

S3: System calculates new rating average for rider that was rated.

S4: System updates the users' profile with their new rating.

Secondary Scenario:

E2.1: The user doesn't provide a rating.

1. The system keeps presenting them with the form and doesn't allow them to use the app in any other way until the rating is provided.

S4.1: if the rating of a rider drops below a threshold, the system warns them about account revocation.

1. After 3 warnings, the account is revoked.

B7: Users enter word of the day for Wordle Wednesday

Pre-Condition: The system has determined it is a Wednesday and the user has chosen to participate.

VP7.1 Rider

Main Success Scenario:

S1: System presents option to enter word of the day for discounts.

E1: User enters correct word of the day submission.

E2: User submits their word.

S2: System displays congratulations, and explains that User will receive a discount on their next taxi trip using "Ridelink".

S3: System will apply the discount on the fare calculation for the user's next ride.

Secondary Scenario:

E1.1: User enters wrong word of the day submission

1. User re-submits their word for a maximum of six tries.

1.i. The user gets the correct word prior to their sixth try. 1.ii. The system applies the discount on the next fare calculation. 2. System displays that submission is incorrect for the sixth time and that the user did not win the discount.

E1.2: User requests to learn more about wordle Wednesday

S2.2.1: System displays message with link to wordle, explaining rules of Wordle Wednesday

VP7.3: Marketing:

S4: System offers a 50 percent discount to a random Winner of Wordle Wednesday.

Global Scenario

Main Success Scenario: S1: System presents option to enter word of the day for discounts.

E1: User enters correct word of the day submission.

E2: User submits their word.

S2: System displays congratulations, and explains that User will receive a discount on their next taxi trip using "Ridelink".

S3: System will apply the discount on the fare calculation for the user's next ride.

S4: System offers a 50 percent discount to a random Winner of Wordle Wednesday.

S4.1: System congratulates the random winner.

S4.2: System will divide fare calculation by two, for the next ride the winner pays for.

Secondary Scenarios:

E1.1: User enters wrong word of the day submission

1. User re-submits their word for a maximum of six tries.

1.i. The user gets the correct word prior to their sixth try.

1.ii. The system applies the discount on the next fare calculation.

2. System displays that submission is incorrect for the sixth time and that the user did not win the discount.

E1.2 User requests to learn more about Wordle Wednesday

1. System displays message with link to wordle, explaining rules of Wordle Wednesday

5 Non-Functional Requirements

5.1 Look and Feel Requirements

5.1.1 Appearance Requirements

[LF-AR1.] N/A

5.1.2 Style Requirements

1. LF-SR1. The application should include the company's specific logo as well as the logo of the taxi company it is operating with.

Rationale: A logo is helpful for marketing and branding purposes.

5.2 Usability and Humanity Requirements

5.2.1 Ease of Use Requirements

UH-EOU1. The first successful interaction between the user and application shall take at most 30 seconds on first attempt for 85% of users of various age demographics (18-75+).

Rationale: The users of the application can be anyone of legal age with different technological skill sets. The application should be simple enough that individuals who are not technologically skilled can learn and use the application. According to research, an average user can only maintain their attention on a task for a maximum of 10 seconds. Thus, if the first time a user gets a response from the application is more than 30 seconds after actively trying, that means that the application is too difficult to use.

5.2.2 Personalization and Internationalization Requirements

[UH-PI1.] N/A

5.2.3 Learning Requirements

UH-LR1. The app's GUI should be simple enough to learn in 10 minutes or less by a member of the general public.

Rational: Becoming competent in using a new application should be simple and is of great importance for an application that is to be used by any member of the general public.

5.2.4 Understandability and Politeness Requirements

[UH-UP1.] N/A

5.2.5 Accessibility Requirements

[UH-A1.] N/A

5.3 Performance Requirements

5.3.1 Speed and Latency Requirements

PR-SL1. Any interaction between a user and the application shall have a maximum response time of two seconds.

Rationale: In order to make sure that the application functions smoothly and seamlessly, it is essential for its response time to be as fast as possible. This would also improve user experience which would translate to more users being willing to use the application.

5.3.2 Safety-Critical Requirements

PR-SC1. The name of the rider that is sharing a ride shall be visible to the rider offering the carpool.

Rationale: This would ensure that the person getting in the car as the rider offering the ride is the actual person they agreed to sharing a ride with on the application.

5.3.3 Precision or Accuracy Requirements

PR-PA1. The fare calculations must be consistent and accurate to two decimal places.

Rationale: the same method of calculation should be used to calculate the fares for all riders and the fare should be accurate to two decimal places so that it's easily payable.

PR-PA2. The target destination of riders sharing a ride must be within a 35m radius of each other.

Rationale: The requirement for sharing a ride is that riders must be going to the same destination. If the application needs an exact geographical location, there would be no room for slight variations that are intuitively considered to be the same location.

5.3.4 Reliability and Availability Requirements

N/A (**Modified** -i taken out based on feedback)

5.3.5 Robustness or Fault-Tolerance Requirements

PR-RFT1. The application shall display a message to a requesting rider when an offering rider rejects their request or when an offer expires.

Rationale: This requirement will ensure that users know what is happening to their offer/request and there would be no room for confusion for the users.

5.3.6 Capacity Requirements

PR-C1. The application must be able to handle having 5 simultaneous users during the day from 6:00am to 12am. For the period from 12am to 6am, the maximum loading can be 3.

Rationale: In order for the application to work well and for riders to be able to find other riders to share rides with, it is expected that the application will have simultaneous users in different geographical locations. Therefore, it must be able to support all the users that would be simultaneously using the application. The numbers were specifically chosen such that the development team can easily test this requirement.

5.3.7 Scalability or Extensibility Requirements

PR-SE1. The application must be extendable for use with other taxi companies. Therefore, there has to be minimal coupling between the application and the individual taxi company. The application must be a stand-alone entity, separated from the taxi company.

Rationale: In order for the application to be useful, a high number of users must be using it. Therefore, it is important for the application to be extensible such that many different taxi companies in different regions can

5.3.8 Longevity Requirements

PR-L1. The application should be manually monitored on the first Monday of every month to ensure that fare calculations are up to date with the average costs of taxis.

Rationale: The application's fare calculations are subject to change based on the pricing of taxis in the city that the application operates in (Toronto). In order to ensure that users will use the application for a long time, the application must ensure that the prices remain affordable for taxi users while making sure that the taxi companies still make profit.

5.4 Operational and Environmental Requirements

5.4.1 Expected Physical Environment

OE-EPE1. The application operates on Android smartphones and depends on QR codes that will be physically placed inside taxis.

Rationale: The QR code needs to be placed inside a taxi such that the offering rider can scan it and make the ride available for carpooling. The QR code represents the taxi ID.

5.4.2 Requirements for Interfacing with Adjacent Systems

OE-IA1. The application must interface with Google Maps or other navigation systems.

Rationale: To allow customers to track the taxi route and present potential routes when requesting or offering taxi carpools, there is a need for interfacing with a navigation system API.

5.4.3 Productization Requirements

[OE-P1.] N/A

5.4.4 Release Requirements

[OE-R1.] N/A

5.5 Maintainability and Support Requirements

5.5.1 Maintenance Requirements

[MS-M1.] N/A

5.5.2 Supportability Requirements

MS-S1. The system shall officially be supported for android versions 7.0 and higher.

Rationale: This will allow the app to be used on older devices (any android devices released in 2016 or later, as well as many released earlier) while still having the necessary android API features to enable the core functionality of the app.

5.5.3 Adaptability Requirements

MS-A1. The application's UI should scale correctly to fit devices with different aspect ratios. The height and width of the application should be within 0.3 inches of the borders of the phone that it is operating on.

Rationale: The expected clients of this app will be interacting with the application through their smartphones. Thus, the app should work globally on various different models. This is testable by using the app on different screen sizes and aspect ratios to ensure that the UI scales correctly.

5.6 Security Requirements

5.6.1 Access Requirements

SR-AC1. The app should only allow users with an account to use its services.

Rationale: It is more secure to only allow those whose personal information are known to use the carpooling systems of the application.

SR-AC2. The app must verify the age of users as they create their accounts to ensure that no minors (under the age of 18) can request or offer taxi rides.

Rationale: The application would be protecting minors in this way and ensuring that only consenting account holders can use the application.

5.6.2 Integrity Requirements

SR-INT1. The application must encrypt all transmitted messages using a cryptosystem.

Rationale: To ensure that the transmitted data is protected, encryption is necessary.

5.6.3 Privacy Requirements

SR-P1. Only the information of active users is kept in the database. The information of users who have deleted their account shall be removed from the database.

Rationale: Keeping information of people who are no longer account holders is an unnecessary liability. The more information is kept, the more information there exists that needs to be protected.

5.6.4 Audit Requirements

[SR-AU1.] N/A

5.6.5 Immunity Requirements

SR-IM N/A

5.7 Cultural and Political Requirements

5.7.1 Cultural Requirements

CP-C1. The program must not use any icons or language that might be offensive to people in the region it operates in (Toronto) or in general.

Rationale: This ensures that every user on the app feels respected.

CP-C2. The program must use grammatically and logically correct sentences in English.

Rationale: This requirement is essential to convey professionalism and ensure usability in the region that the application operates in (Toronto).

5.7.2 Political Requirements

[CP-P1.] N/A

5.8 Legal Requirements

5.8.1 Compliance Requirements

LR-COMP1. The taxi cab fare must be calculated in accordance to the city's regulated rate.

Rationale: This is a bylaw that must be followed.

LR-COMP2. The application needs to be in compliance with the Personal Information Protection and Electronic Documents Act (PIPEDA). This is ensured by obtaining implicit consent for collecting, sharing, using a user's information, identifying purposes of data collection, limiting collection, use and external disclosure. This can be done by presenting the user with a consent form outlining the mentioned aspects upon account creation.

Rationale: Any digital service that collects user information is legally required to have a privacy policy; thus, necessitating a privacy policy as the app will collect personal data (during account creation).

5.8.2 Standards Requirements

LR-STD1. A maximum of 4 riders can be matched to ride in a taxi according to the City of Toronto's bylaws [4].

Rationale: Ensures the safety of the riders and compliance with the city of Toronto's bylaws.

A Division of Labour

Include a Division of Labour sheet which indicates the contributions of each team member. This sheet must be signed by all team members.

Name	Contributions
Saina Seddighpour	Sections 1.3, 1.5, 2.2, BE3, BE4, BE5, NFR 5.2.1, NFR 5.2.4, NFR 5.2.5, NFR 5.3, NFR 5.4.1, NFR 5.4.2, NFR 5.6, NFR 5.8, global scenario, editing after feedback - all NFRs and BEs were reworked and redone.
Mark Kogan	Sections 1.1,1.2, 1.5, 2.1, block diagram, 2.2, 3 (use case diagram), BE5, BE6, BE7 NFR 5.1, 5.2.1, 5.5.1, global scenario 6-7, editing
Kartik Chaudhari	Sections: 2.1, 2.3, 2.4, Global Scenario, BE3, BE6, BE7, NFR 5.3, NFR 5.7.1, Editing
Abdul Zulfiqar	Sections: 1.2, 2.5 BE4, BE5, NFR 5.5.1 NFR 5.5.2, NFR 5.8.1

Signature:  ,  ,  , 