

JN08

Requirements Document

*Carpooling System*

Team Members:

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# PROJECT OVERVIEW

## System Overview & Objective

People all over travel great distances to gatherings in other cities, or even shorter distances from surrounding neighbourhoods to universities. A system would be needed in this situation to advertise available lifts and to also advertise lifts needed. The objective of the carpooling system is to provide an easy means to find people with whom to travel to an event or recurring activity, reduce traffic loads during peak times, and lower the carbon emission levels per person per car. Uber is a system that exists and is similar to our system, but Uber is city based and does not allow for lifts from one city to another. E.g. going from PE to Cape Town for a concert.

## System Assumptions

* The system assumes that the user has some computer literacy even though the system will be made user friendly.
* User has access to a computer and the internet in order to access the website.
* A user may use a mobile device to access the system using a mobile web browser.
* The system assumes that not only people who are looking for a lift would register on the system but also people who are willing to give lifts to other people.
* Google Maps should be running at the time of inquiry.

## Deliverables Out of Scope

* User authentication using cell phone numbers or checking student credentials
* Map location using address search;
* Driver can choose a specific route using Google Maps
* User rating system: This would be for both the driver and the passenger
* Searching for events to go to in areas (but then there must be an indication on what events are open to the public and which ones are not)
* Have two types of events: Local events and National events or events organised by companies. For local events, the creator can manage (edit and delete) that event and then the national events would be managed by administrators only (A company can register as a company and that would grant them privileges to create bigger events. They will have to go through a stricter registration process which will be approved by an Administrator. So then we would have a register company and a register traveller).

## Stakeholders

### Business Actors

| **Actor** | **Role** |
| --- | --- |
| Driver | Accepts users into ridesharing group; Decide on price parameters; |
| Passenger | Selects ridesharing group to join based on their destination |
| Administrator | Removes users or events from the system |
| Time | Triggers time-based actions which happen on a schedule. |

### Development Team

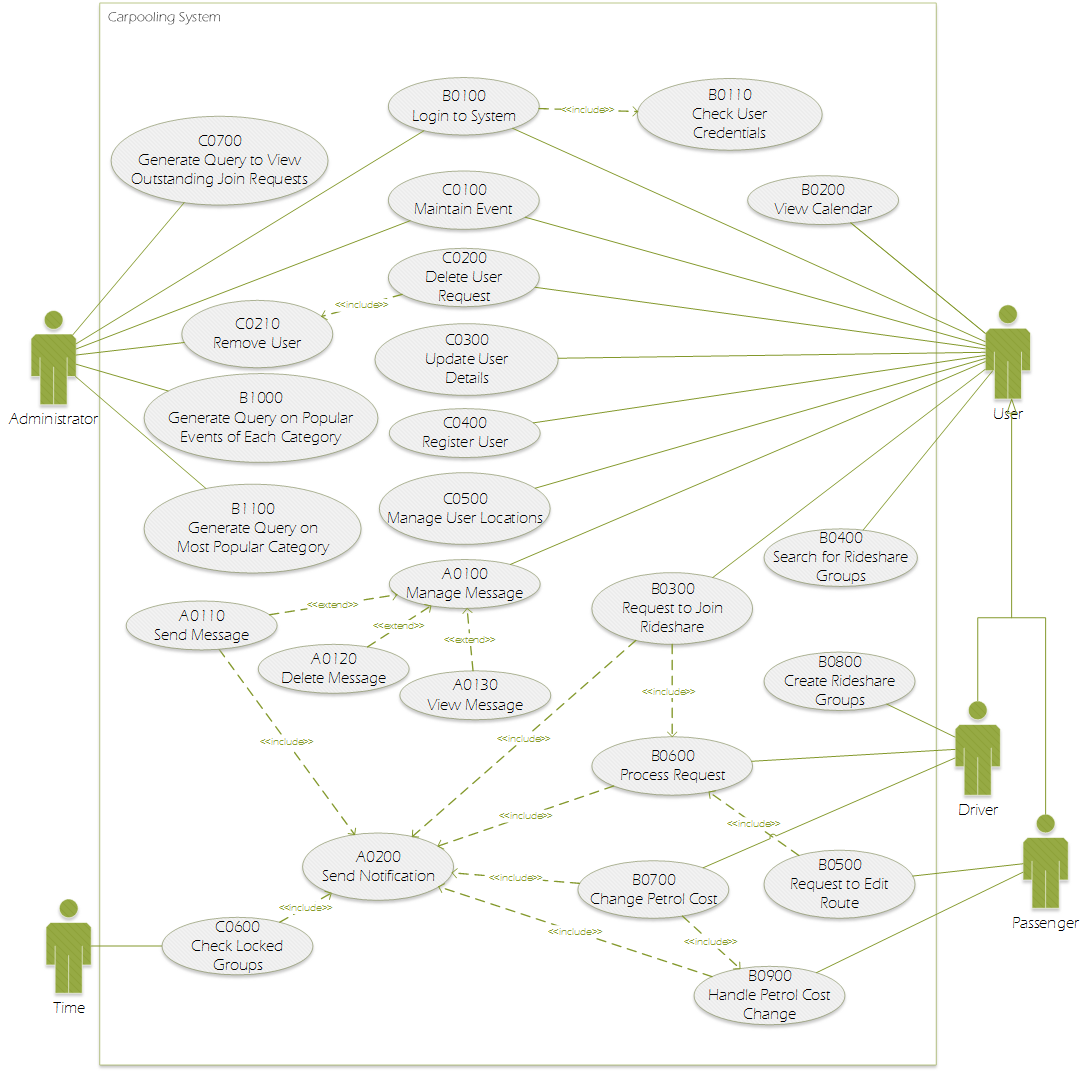
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| **Team Member** |
| Agnes Kijewski |
| Logan Fleur |
| Richard Smart |

# FUNCTIONAL REQUIREMENTS

## Business Rules

1. An administrator manages an area.
2. An administrator manages an event category.
3. A user and administrator can add or modify events but only an administrator can delete and event.
4. A user or administrator can maintain a member
5. Users can create events but not a rideshare group
6. A user is the only one who can register
7. A user can belong to multiple ridesharing groups whether it is as a driver or passenger.
8. Passengers from a dissolved group must be able to join a new group before other passengers.
9. Passengers can request to join a rideshare group
10. Drivers can choose to accept passengers to their group.
11. A driver can request for an event to be deleted but a once off event is automatically deletes after the event has started.
12. Drivers must be able to dissolve their group
13. Drivers can load/change price
14. The group members and cost must be locked 1 day before departure, for scheduled rideshares, and 1 week for events.
15. Time can do a check on locked groups. Time checks locked groups once a day (say 12am). If there are locked groups, then a notification will be sent out.

## Business Use Case Model



Assumptions:

* The Administrator and User (Passenger or Driver) must be logged in to do anything on the Carpooling System.
* The user sends a message to the group, at which point the notification system notifies all members (less the sender) that a message has been sent to the group.
* The ridesharing groups on the system is checked every day at 12am to see if there are any group whose event occurs in a week’s time. Those groups get locked.
* A User attempts to become a Passenger by requesting to join a Ridesharing group.
* Send Notification is triggered by the system when Users and Time perform actions that require other Users to be notified of changes.
* The Driver requests to change the petrol cost which notifies the Passengers of a pending change.
* The Passenger either accepts or rejects a change in petrol cost and the driver is notified of the polling result.

## Use Case Glossary

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| **Package Id: Package Name: Communication** | | |
| **Use Case Id** | **Use Case Name** | **Actors** |
| A0100 | Manage Message | User |
| A0110 | Send Message |  |
| A0120 | Delete Message |  |
| A0130 | View Message |  |
| A0200 | Send Notification |  |

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| **Package Id: Package Name: Ridesharing group** | | | |
| **Use Case Id** | **Use Case Name** | **Actors** | |
| B0100 | Login to System | User, Administrator | |
| B0110 | Check Credentials |  | |
| B0200 | View Calendar | User | |
| B0300 | Request to Join Rideshare | User, Driver | |
| B0400 | Search for Rideshare Groups | User | |
| B0500 | Request to Edit Route | Passenger, Driver | |
| B0600 | Process Request | Driver, User | |
| B0700 | Change Petrol Cost | Driver, Passenger | |
| B0800 | Create Rideshare Groups | Driver | |
| B0900 | Handle Petrol Cost Change | Passenger | |
| **Queries/Reports** | | | |
| B1000 | Generate Query on Popular Events of Each Category | Administrator | |
| B1100 | Generate Query on Most Popular Destination | Administrator | |
| **Package Id: Package Name: Administration** | | | |
| **Use Case Id** | **Use Case Name** | | **Actors** |
| C0100 | Maintain Event | | User, Administrator |
| C0200 | Delete User Request | | User |
| C0210 | Remove User | | Administrator, User |
| C0300 | Update User Details | | User |
| C0400 | Register User | | User |
| C0500 | Manage User Locations | | User |
| C0600 | Check Locked Groups | | Time, User |
| **Queries/Reports** | | | |
| C0700 | Generate Query to View Outstanding Join Requests | | Administrator |

## Use Case Narratives

General note: In order for the Administrator and User (Passenger or Driver) to do anything on the Carpooling System, they need to be logged in.

### Package A: Communication

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| **Use Case ID** | **Use Case Name** | |
| A0100 | Manage Message | |
| **Primary Business Actors** | | **Other participating Actors** |
| User | | - |
| **Description** | Allows users to communicate with each other. The User will be able to view, send and delete messages between themselves and other Users. | |
| **Pre-Conditions** | Users must be logged into the system. | |
| **Triggers** | This is triggered when the User selects the message option. | |
| **Post-Conditions** | Depending on what the User would like to do on the messaging system, Send Message (A0110), Delete Message (A0120) and View Message would be triggered respectively. | |
| **Basic Flow of Events** | Typical course of events   1. User logs into the system. 2. If the User chooses option to send a message (Send Message - A0110) is invoked, delete a message (Delete Message – A0120) is invoked or view a message (View Message –A0130) is invoked. | |

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| **Use Case ID** | **Use Case Name** | |
| A0110 | Send Message | |
| **Primary Business Actors** | | **Other participating Actors** |
| - | | - |
| **Description** | Allows a User to send messages to other users. The user would have entered a recipient from the ridesharing group/s, which the user is a part of, and the system would send the user’s message. | |
| **Pre-Conditions** | Users must be in same group as intended recipient | |
| **Triggers** | Triggered by Manage Message (A0100) | |
| **Post-Conditions** | Message is delivered to recipient/s which the user specified. | |
| **Basic Flow of Events** | Typical course of events   1. Triggered by Manage Message (A0100) 2. The system sends the message. 3. Send Notification (A0200) is triggered   Alternate course of events   * 1. The system highlights to the user if there is no recipient/s selected and tells the user to select a recipient before the user can try to send the message again. | |

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| **Use Case ID** | **Use Case Name** | |
| A0120 | Delete Message | |
| **Primary Business Actors** | | **Other participating Actors** |
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| **Description** | Allows Users to delete messages they have received. | |
| **Pre-Conditions** | User must have a message/s to be deleted. | |
| **Triggers** | Triggered by Manage Message (A0100) | |
| **Post-Conditions** | Message is deleted and is no longer available | |
| **Basic Flow of Events** | Typical course of events   1. Triggered by Manage Message (A0100) 2. User chooses a message/s and selects the delete option (which only becomes visible when (a) message/s are selected). 3. The system deletes the selected message/s from the user’s private inbox. | |

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| **Use Case ID** | **Use Case Name** | |
| A0130 | View Message | |
| **Primary Business Actors** | | **Other participating Actors** |
| - | | - |
| **Description** | The User selects the message which they would like to view. The system the displays the message selected for viewing to the User. | |
| **Pre-Conditions** | The User must be logged in and must have chosen to go into the messaging system. | |
| **Triggers** | Triggered by Manage Message (A0100) | |
| **Post-Conditions** | The system displays the message selected for viewing to the User. | |
| **Basic Flow of Events** | Typical course of events   1. Triggered by Manage Message (A0100) 2. The User selects the message which they would like to view. 3. The system the displays the message selected for viewing to the User. | |

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| **Use Case ID** | **Use Case Name** | |
| A0200 | Send Notification | |
| **Primary Business Actors** | | **Other participating Actors** |
| - | | - |
| **Description** | Notifies users any changes or updates regarding the events or rides they are subscribed to. | |
| **Pre-Conditions** | Users must be subscribed to an event or already part of a group going to an event. | |
| **Triggers** | Send Message (A0110); Request to Join Rideshare (B0300); Change Petrol Cost (B0700); Process Request (B0600); Check Locked Groups (C0600); Handle Petrol Cost Change (B0900) | |
| **Post-Conditions** | Notification is visible to all relevant logged in users. | |
| **Basic Flow of Events** | Typical course of events   1. Triggered by either Send Message (A0110), Request to Join Rideshare (B0300), Change Petrol Cost (B0500), Process Request (B0600), Check Locked Groups (C0600), Handle Petrol Cost Change (B0900) 2. For any message sent, request to join a rideshare group, change in petrol costs, request to be processed or if the system finds a locked group at 12am each day, a notification will be sent to the relevant users to notify them of a message received, request to join their rideshare group, change in petrol costs, processed request, and changes made by the system respectively. | |

### Package B: Ridesharing Group

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| **Use Case ID** | **Use Case Name** | |
| B0100 | Login to System | |
| **Primary Business Actors** | | **Other participating Actors** |
| Administrator, User | | - |
| **Description** | Administrators and Users need to login in order to use the carpooling system. They will login with their unique username and their password. | |
| **Pre-Conditions** | The Administrator/User must not be logged in yet. | |
| **Triggers** | Selecting to login to the system. | |
| **Post-Conditions** | The Administrator/User will be logged into the system. | |
| **Basic Flow of Events** | Typical course of events   1. Administrator/User clicks the login option. 2. The system prompts the Administrator/User for their username and password. 3. The Administrator/User enters their credentials. 4. Check Credentials (B0110) is triggered 5. The system logs the Administrator/User in. | |

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| **Use Case ID** | **Use Case Name** | |
| B0110 | Check Credentials | |
| **Primary Business Actors** | | **Other participating Actors** |
| - | | - |
| **Description** | The system checks the username and password which the Administrator/User have entered. | |
| **Pre-Conditions** | The Administrator/User must be registered. | |
| **Triggers** | Triggered by Login to System (B0100) | |
| **Post-Conditions** | The Administrator/User will be logged onto the system. | |
| **Basic Flow of Events** | Typical course of events   1. Triggered by Login to System (B0100). 2. The system checks the credentials entered by the Administrator/User. 3. Return to step 5 of Login to system (B0100).   Alternate course of events   * 1. The credentials entered are incorrect; the system displays an incorrect username and password message.   2. The Administrator/User is prompted to enter their username and password on again. (returns to Point 2) | |

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| **Use Case ID** | **Use Case Name** | |
| B0200 | View Calendar | |
| **Primary Business Actors** | | **Other participating Actors** |
| User | | - |
| **Description** | Users can view their upcoming rides. | |
| **Pre-Conditions** | User must be logged in and a part of a group or a Driver of a group. | |
| **Triggers** | Triggered when the View Calendar option is clicked. | |
| **Post-Conditions** | A calendar is displayed with the upcoming rides put into the calendar. | |
| **Basic Flow of Events** | Typical course of events   1. User selects the option to view their calendar. 2. The system then displays the calendar to the user with the users events indicated in the calendar. | |

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| **Use Case ID** | **Use Case Name** | |
| B0300 | Request to Join Rideshare | |
| **Primary Business Actors** | | **Other participating Actors** |
| User | | Driver |
| **Description** | Passenger requests to join a rideshare group. | |
| **Pre-Conditions** | User must be logged in and cannot already be part of a rideshare group going to the same event. | |
| **Triggers** | Triggered when the User selects the join a rideshare group option. | |
| **Post-Conditions** | Request is sent to Driver for confirmation. Process Request (B0600) is triggered. | |
| **Basic Flow of Events** | Typical course of events   1. User selects appropriate rideshare group to join. 2. Application to join above respective group is sent to the Driver. 3. Process Request (B0600) is triggered. | |

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| **Use Case ID** | **Use Case Name** | |
| B0400 | Search for Rideshare Groups | |
| **Primary Business Actors** | | **Other participating Actors** |
| User | | - |
| **Description** | User searches for rideshare groups for a specific event (using event name). | |
| **Pre-Conditions** | User must be logged in. | |
| **Triggers** | User initiates rideshare group search by using the search option. | |
| **Post-Conditions** | User presented with list of possible groups | |
| **Basic Flow of Events** | Typical course of events   1. User selects to search for a rideshare group for an event (search based on event name) 2. User is presented with a list of most appropriate groups based on their current search terms and proximity to route. 3. User selects most appropriate group (or group of his/her choice). | |

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| **Use Case ID** | **Use Case Name** | |
| B0500 | Request to Edit Route | |
| **Primary Business Actors** | | **Other participating Actors** |
| Passenger | | Driver |
| **Description** | Passenger can choose to edit their pickup location on the route. | |
| **Pre-Conditions** | Both the Passenger and Driver must be logged in. The Passengers must be notified and agree to changes. | |
| **Triggers** | Passenger selects edit route option. | |
| **Post-Conditions** | Route is updated.  Passengers are notified that route has successfully been updated. | |
| **Basic Flow of Events** | Typical course of events   1. Passenger opts to change route. 2. Proposed changes are sent to Driver for approval. 3. Upon approval, route is updated and Passengers are informed of changes through Send Notification (A0200) being triggered. | |

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| **Use Case ID** | **Use Case Name** | |
| B0600 | Process Request | |
| **Primary Business Actors** | | **Other participating Actors** |
| Driver | | User |
| **Description** | Driver decides whether to accept Users into a rideshare group where they all are all travelling together to an event or destination. | |
| **Pre-Conditions** | User must apply to join Drivers rideshare group | |
| **Triggers** | Request to Join Rideshare (B0300) or Request to Edit Route (B0500). | |
| **Post-Conditions** | Passenger is accepted into the rideshare group. Send Notification (A0200) is triggered. | |
| **Basic Flow of Events** | Typical course of events   1. Triggered by Request to Join Rideshare (B0300) or Request to Edit Route (B0500). 2. Driver receives request, from a User, to join rideshare group or edit route. 3. Driver opts to accept request to join rideshare group or edit route. 4. Passenger is added to the rideshare group or route is modified. 5. Send Notification (A0200) is triggered | |

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| **Use Case ID** | **Use Case Name** | |
| B0700 | Change Petrol Cost | |
| **Primary Business Actors** | | **Other participating Actors** |
| Driver | | Passengers |
| **Description** | Driver changes price per km in a ridesharing group to an event. | |
| **Pre-Conditions** | Both the Passenger and Driver need to be logged into the system. | |
| **Triggers** | The Driver chooses to change the petrol cost of a ridesharing group which he is a part of. | |
| **Post-Conditions** | Price change is sent through Send Notification (A0200) being triggered | |
| **Basic Flow of Events** | Typical course of events   1. Driver opts to change price per km. 2. Send Notification (A0200) is triggered. | |

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| **Use Case ID** | **Use Case Name** | |
| B0800 | Create Rideshare Groups | |
| **Primary Business Actors** | | **Other participating Actors** |
| Driver | | - |
| **Description** | Drivers can create new ridesharing groups. This ridesharing group is used to allow users travel to the same event/destination in one vehicle. | |
| **Pre-Conditions** | A User must be registered as a Driver and Driver must be logged in. | |
| **Triggers** | The driver selects the option to create a ridesharing group. | |
| **Post-Conditions** | A group is created with user set as ‘Driver’ and the initial route from drivers start location to event is determined by system. | |
| **Basic Flow of Events** | Typical course of events   1. Driver opts to create a rideshare group. 2. Driver specifies which event he/she will be lifting to. 3. Driver specifies how many passengers he/she is willing to lift. | |

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| **Use Case ID** | **Use Case Name** | |
| B0900 | Handle Petrol Cost Change | |
| **Primary Business Actors** | | **Other participating Actors** |
| Passenger | | - |
| **Description** | Passengers can accept or deny request to change petrol cost by Driver. | |
| **Pre-Conditions** | A request to change the petrol cost must exist within the rideshare group | |
| **Triggers** | A request to Change Petrol Cost (B0700) has been made to which the Passenger responds. | |
| **Post-Conditions** | The change in petrol cost is saved to the system and Send Notification (A0200) is triggered. | |
| **Basic Flow of Events** | Typical course of events   1. Triggered by Change Petrol Cost (B0700) 2. Passenger selects to handle the change in petrol cost. 3. Passenger accepts the proposed change in petrol cost. 4. Send Notification (A0200) is triggered.   Alternate course of events   * 1. Passenger rejects the change in petrol cost. | |
| **Use Case ID** | **Use Case Name** | |
| B1000 | Generate Query on Popular Events of Each Category | |
| **Primary Business Actors** | | **Other participating Actors** |
| Administrator | | - |
| **Description** | Shows events where the number of attendees is above one standard deviation of total users attending per event in any time period | |
| **Pre-Conditions** | More than one Event must exist in the System.  Administrator must be logged in | |
| **Triggers** | Request for Query by the Administrator | |
| **Post-Conditions** | Query results are displayed to the Administrator | |
| **Basic Flow of Events** | Typical course of events   1. Administrator selects the query to be computed by the system. 2. Administrator selects a time period during which to search for events. 3. System calculates results and returns them for viewing by the Administrator. | |

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| **Use Case ID** | **Use Case Name** | |
| B1100 | Generate Query on Most Popular Destination | |
| **Primary Business Actors** | | **Other participating Actors** |
| Administrator | | - |
| **Description** | Shows which event was the most popular in any time period | |
| **Pre-Conditions** | More than 1 Event must exist in the System.  Administrator must be logged in | |
| **Triggers** | Request for Query by the Administrator | |
| **Post-Conditions** | Query results are displayed to the Administrator | |
| **Basic Flow of Events** | Typical course of events   1. Administrator selects the query to be computed by the system. 2. Administrator selects a time period during which to search for events. 3. System calculates results and returns them for viewing by the Administrator. | |

### Package C: Administration

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| **Use Case ID** | **Use Case Name** | |
| C0100 | Maintain Event | |
| **Primary Business Actors** | | **Other participating Actors** |
| Administrator, User | | - |
| **Description** | Maintain event allows the Administrator/User to create events, edit events and delete events. | |
| **Pre-Conditions** | User must be the creator of the event if deleting an event. | |
| **Triggers** | User/Administrator selects to maintain an event | |
| **Post-Conditions** | Users subscribed to event are notified about changes | |
| **Basic Flow of Events** | 1. Administrator/User adds/edits/deletes an event. 2. All Users subscribed to that event are notified of the changes/deletion (if it occurs). | |

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| **Use Case ID** | **Use Case Name** | |
| C0200 | Delete User Request | |
| **Primary Business Actors** | | **Other participating Actors** |
| User | | - |
| **Description** | A User requests to be deleted off the system. | |
| **Pre-Conditions** | The User must be logged in. | |
| **Triggers** | User selects the delete account option. | |
| **Post-Conditions** | A request to delete the users account is sent to the Administrator. Remove User (C0210) is triggered. | |
| **Basic Flow of Events** | Typical course of events   1. The User selects the option to delete their account. 2. System displays a request to fill in why the User would like to delete their account. 3. User fills in the reasons for wanting to delete their account. 4. Remove User (C0210) is triggered. | |

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| **Use Case ID** | **Use Case Name** | |
| C0210 | Remove User | |
| **Primary Business Actors** | | **Other participating Actors** |
| Administrator | | User |
| **Description** | A User is remover by the administrator from the whole system. | |
| **Pre-Conditions** | Administrator must be logged in. The User must have sent a request to be deleted off the system. | |
| **Triggers** | Triggered by Delete User Request (C0200) | |
| **Post-Conditions** | The User is deleted off the Carpooling System | |
| **Basic Flow of Events** | Typical flow of events   1. Triggered by Delete User Request (C0200) 2. Administrator reviews the reason why the User would like to be deleted off the system. 3. The Administrator deletes the User off the system. | |

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| **Use Case ID** | **Use Case Name** | |
| C0300 | Update User Details | |
| **Primary Business Actors** | | **Other participating Actors** |
| User | |  |
| **Description** | The User will be able to update any details on their profile. This will include contact details (telephone number and email address), physical address, job description, etc. | |
| **Pre-Conditions** | The User must be logged in. | |
| **Triggers** | Details of the User have changed and the User wishes to update their details on the system. | |
| **Post-Conditions** | The Users details will be up to date. | |
| **Basic Flow of Events** | Typical course of events   1. The User changes their details on the system. 2. The Users details are updated on the system. | |

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| **Use Case ID** | **Use Case Name** | |
| C0400 | Register User | |
| **Primary Business Actors** | | **Other participating Actors** |
| User | |  |
| **Description** | The User registers on the system. This will allow the User to then use the Carpooling System to get to and from events and/or help other people to get to and from events. | |
| **Pre-Conditions** | - | |
| **Triggers** | Triggered if the User selects the register option. The User will be looking for a way to travel around and attend events. | |
| **Post-Conditions** | The User will be registered on the Carpooling System and can use the system. | |
| **Basic Flow of Events** | Typical course of events   1. The User goes through the registration process on the system. 2. The User is registered on the system. | |

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| **Use Case ID** | **Use Case Name** | |
| C0500 | Manage User Locations | |
| **Primary Business Actors** | | **Other participating Actors** |
| User | |  |
| **Description** | The User manages a list of their locations for quick access. The user will be able to add, edit, or remove stored locations. | |
| **Pre-Conditions** | The User must be logged in | |
| **Triggers** | The User chooses to manage locations option on the system. | |
| **Post-Conditions** | Based on the User’s action, a location will be added, changed, or deleted from the system. | |
| **Basic Flow of Events** | Typical course of events   1. User selects to modify locations. 2. The User goes through the process of adding, modifying, or deleting a location. 3. The System saves the changes made. | |

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| **Use Case ID** | **Use Case Name** | |
| C0600 | Check Locked Groups | |
| **Primary Business Actors** | | **Other participating Actors** |
| Time | | User |
| **Description** | The system finds ridesharing groups where the event will take place exactly in a weeks’ time and if there are such ridesharing groups, then the system locks those groups at 12am each day. | |
| **Pre-Conditions** | There must be ridesharing groups which will take place exactly in a weeks’ time. | |
| **Triggers** | Ridesharing groups which will take place in a weeks’ time. | |
| **Post-Conditions** | The ridesharing groups will become locked groups. Send Notification (A0200) is triggered to send out a notification to all the Users within the ridesharing group to show that the group is now locked. | |
| **Basic Flow of Events** | Typical course of events   1. The system finds ridesharing groups where the event will take place exactly in a weeks’ time. 2. The system locks those ridesharing groups. 3. Send Notification (A0200) is triggered. | |

|  |  |  |
| --- | --- | --- |
| **Use Case ID** | **Use Case Name** | |
| C0700 | Generate Query to View Outstanding Join Requests | |
| **Primary Business Actors** | | **Other participating Actors** |
| Administrator | |  |
| **Description** | Shows which rideshare groups are due to be locked at 12am on the day of the request | |
| **Pre-Conditions** | Administrator must be logged in | |
| **Triggers** | Request for Query by the Administrator | |
| **Post-Conditions** | Query results are displayed to the Administrator | |
| **Basic Flow of Events** | Typical course of events   1. Administrator selects the query to be computed by the system. 2. System calculates results and returns them for viewing by the Administrator. | |

# NON-FUNCTIONAL REQUIREMENTS

## Interface Requirements

The interface needs to be easy to use for any User or Administrator on the system. The layout of the GUI must be logical and similar functions placed close together. The user will be able to easily identify where they may find themselves in the menu structure through a breadcrumb trail. A method of going back to the main page will be provided through a consistently placed button to easily access the root of the system. The depth of our menus will be minimized so as to maintain easy access to functionality through the minimization of clicking (3 click rule)

A lack of error-proneness is a goal of our interface, in order to reduce user stress and impression of complication of interaction. Elements will have an expertly adjusted feng shui that promotes well-being and reduces eye-strain.

## Performance Requirements

Webpage and ridesharing searches must return a response to the user within a few seconds of having clicked, in order to maintain fluid user interaction. The system will show the user it is currently working on finding results if the system takes too long.

## Security Requirements

Administrators and other Users will not have access to personal, confidential, or sensitive user information. Encryption will be implemented between the user web session and the data storage in order to protect sensitive transmitted user data, like current location.

## Operational Requirements

Must run within a WebKit browser. Any non-compatible browsers (i.e. IE) will be forced to upgrade in order to use our system.

# DATA REQUIREMENTS

|  |  |  |
| --- | --- | --- |
| **Entity** | **Example** | **Entity Attributes** |
| Users | 0012254895081, Ms, Janine, Nel, +27415042740, 1, “Lecturer, CR54VS GP | IdNumber, Title, Name, Surname, CellPhoneNumber, AddressID, Occupation, CarLicenceNumber |
| Events | 1, Party at Phil’s, Port Elizabeth, Summerstrand | EventNumber, EventName, Town, Suburb |
| Notifications | 1, “Well, hello there…” | NotificationID, NotificationMessage |
| Messages | 1, 1, 0012254895081, false, “Sportsman”, “Have we met before?”, 12/12/1999, 12:00, true | MessageID, MessageNumber, RecipientID, Cc, Subject, Message, Date , Time, Received |
| Ridesharing Groups | 1, 0012254895081 | RideshareNumber, IdNumber |
| Locations | 1, 221B, Baker Street, Marylebone, London, “Greater London” | AreaID, PlotNumber, StreetName, Suburb, Town, Province |
| Routes | 1, 0012254895081, 1, 1 | RideshareGroup. UserID, LocationID, Order |

# DOCUMENT APPROVAL

The undersigned acknowledge that they have reviewed the **REQUIREMENTS DOCUMENT** and agree with the information presented within this document. Changes to this **REQUIREMENTS DOCUMENT** will be coordinated with, and approved by the undersigned.

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| **Signature:** |  | **Date:** |  |
| **Print Name:** |  |  |  |
| **Role:** | PROJECT SUPERVISOR |  |  |

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| --- | --- | --- | --- |
| **Signature:** |  | **Date:** |  |
| **Print Name:** |  |  |  |
| **Role:** | Developer |  |  |

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| **Signature:** |  | **Date:** |  |
| **Print Name:** |  |  |  |
| **Role:** | Developer |  |  |

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| **Signature:** |  | **Date:** |  |
| **Print Name:** |  |  |  |
| **Role:** | Developer |  |  |