**Saroj Gopali**

**Team-based Project: Release # 2 (Practicing Agile Methodology)**

1. Requirements documentation and specification
   1. **Use Case diagram Ride Share Application**

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Description automatically generated

* 1. **Use Cases Description**

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| **Use Case Name** | **Sign Up** |
| **Actor** | Any customer (who want to register for the service), driver or rider |
| **Trigger** | The user will sign up and provide personal information to use the service |
| **Precondition** | The user should have valid Texas Tech University email address and phone number |
| **Post Condition** | The user can able to use the service after login. |
| **Normal flow** | * The user enters first name, last name. * For the communication user have to provide phone number. * For login user need to provide valid Texas Tech university email address. |

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| **Use Case Name** | **Log In** |
| **Actor** | Any customer (who want to register for the service), driver or rider |
| **Trigger** | The user will provide login email address and password |
| **Precondition** | The user should have sign up. |
| **Post Condition** | Login successfully. |
| **Normal flow** | * The user input email address and password * Verify the username and password from the database. * After verification successfully login or display error if the username or password didn’t match. |

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| **Use Case Name** | **Address** |
| **Actor** | Any customer (who want to register for the service), driver or rider |
| **Trigger** | The user will provide destination address |
| **Precondition** | The user should have log in |
| **Post Condition** | Choose either drive or ride |
| **Normal flow** | * The user input destination address * The user will choose either drive or ride. * After user choose drive or ride, find the driver or rider which has closed or similar destination address. |

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| **Use Case Name** | **Drive** |
| **Actor** | Driver |
| **Trigger** | Find the rider with similar or closed destination address |
| **Precondition** | The user should have chosen drive |
| **Post Condition** | Find the rider using destination location of the driver |
| **Normal flow** | * The user input destination address * The user will choose drive. * After user choose drive, find the rider which has closed or similar destination address. * Provide the estimated time of travel for pick up and completed the trip to destination |

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| **Use Case Name** | **Ride** |
| **Actor** | Rider |
| **Trigger** | Find the driver with similar or closed destination address |
| **Precondition** | The user should have chosen ride |
| **Post Condition** | Find the driver using destination location of the driver |
| **Normal flow** | * The user input destination address * The user will choose ride. * After user choose ride, find the driver which has closed or similar destination address. * Provide the estimated time of travel for pick up and completed the trip to destination |

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| **Use Case Name** | **Match** |
| **Actor** | Admin |
| **Trigger** | Find the driver and rider |
| **Precondition** | List of driver and rider |
| **Post Condition** | Pair driver and rider based on the destination location |
| **Normal flow** | * Find the list of driver and rider based on destination location * Calculate the time and distance of travel to pick up rider. * After user choose drive or ride, find the driver or rider which has closed or similar destination address. |