**Project Order A Car**

**Software Requirements Specification**

**CEN 3031, Fall, 2019**

**Modification history:**

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**Team Name:** Metal Pandas

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**SECTION 1: Introduction**

Software to be Produced:

* This software will allow users to login and register for car rides to and from their destination. Users will input their name, email address and phone number for confirmation and easy communication access to their profile. Users will also be allowed to put in their preferred method of payment, destination, and schedule rides. The software will display maps, estimated time of arrival, and availability of drivers around their area to the users.

Definitions, Acronyms, and Abbreviations:

* None

**SECTION 2:** **Product Overview**

Assumptions:

* The program will be used by taxi service, Uber, and Lyft.
* The program will connect to the user’s location to gather data such as distance from driver/passenger, distance from destination, and the time to destination.
* The program should take about 1 GB.

Use Case Diagram:

A close up of a map

Description automatically generated

Use Case Descriptions:

* Search for route-The driver and passenger will input a destination they want to go, the program will gather their position, the final destination, and the best route to arrive on time.
* Select route-The driver and passenger will receive multiple routes of varying lengths and times.
* Search for closest driver/passenger-The program will gather data from the GPS only when the driver says they are available to pick up a passenger, or when the passenger inputs that they would like to be picked up by a driver.
* Select Driver-The program will gather and display the IDs of drivers around the passenger to choose from based on their ratings by other passengers and distance.
* Select Passenger-This will allow the driver to choose if they want to take the passenger or not based on the passenger’s rating from other drivers.
* Create/modify profile-The program will allow both users to make a profile that will display their picture, their name, and if they are a passenger or driver. They will be allowed to edit their profiles with new names, if they want to be a passenger or driver, and new profile pictures.
* Add/Remove from favorites-The program will have a favorites list that will allow both passengers and drivers to add the other too. If the passenger adds a driver, they will see them first in their options if they are in the area. If the driver adds a passenger, they will get notifications if the favorited passenger is looking for a ride.

**SECTION 3: Specific Requirements**

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| --- |
| **No:**  1. |
| **Statement:**  The system shall switch screens if the correct login information is given from the database. |
| **No:**  2. |
| **Statement:**  The system shall allow the passengers to rate the driver on a scale from 1 to 5 based on professionalism, timeliness, and safety. |
| **No:**  3. |
| **Statement:**  The system shall allow passengers and drivers to create and modify their profile by allowing profile pictures, descriptions of main routes that are taken. |
| **No:**  4. |
| **Statement:**  The system shall allow drivers and passengers to register an account by allowing an email address, their age, name, make and color of the car, location and card number. |
| **No:**  5. |
| **Statement:**  The system shall compute the time of arrival from the pickup location to the selected destination. |
| **No:**  6. |
| **Statement:**  The system shall allow the passenger to see all drivers within a five-mile radius and their rating in stars before they choose a driver. |
| **No:**  7. |
| **Statement:**  The system shall allow drivers and passengers to cancel a trip based on wrong location, not needed, or ratings. |
| **No:**  8. |
| **Statement:**  The system shall allow drivers to select the distance away they are willing to travel to get a passenger and allow a time frame that the driver is available. |
| **No:**  9. |
| **Statement:**  The system shall allow passengers to provide a time they are willing to wait for a driver to arrive, and when the passenger(s) would like to be picked up. |
| **No:**  10. |
| **Statement:**  The system shall allow the driver to accept or deny the passenger’s choice based on either time, distance, or the rating of the passenger by other drivers. |
| **No:**  11. |
| **Statement:**  The system shall allow passengers to voluntarily pay a tip to their driver after the trip has been completed. |
| **No:**  12. |
| **Statement:**  The system shall allow the passenger to pay with debit, credit, or a visa gift card to the service. |
| **No:**  13. |
| **Statement:**   The system shall calculate the payment due by using the miles driven multiplied by the standard driver rate of $4 per mile |
| **No:**  14. |
| **Statement:**  The system shall withdraw the payment from the customer’s payment card on file after receiving confirmation. |
| **No:**  15. |
| **Statement:**  The system shall pay the driver 75% of each fair plus the tip from the customer. |
| **No:**  16. |
| **Statement:**  The system shall pay the Project Order A Car 25% of each fair, tip not included. |

Template created by G. Walton (GWalton@mail.ucf.edu) on Aug 30, 1999 and last updated Aug 15, 2000; updated by A. Koufakou, Aug 2014

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