**Order-A-Car**

**Software Requirements Specification**

**CEN 3031, Fall, 2019**

**Modification history:**

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| --- | --- | --- | --- |
| Version | Date | Who | Comment |
| v1.0 | 10/11/2019 | Fantastic 6 | Began initial steps of collaboration within project. Group ensured ability to correctly work together in a version control system (GitHub). |
| v1.1 | 11/9/2019 | Fantastic 6 | Created basic GUI with functionality. Linked multiple scenes together with a login, register, rider, and a driver scene. Linked GUI to database. |
| v1.2 | 12/4/2019 | Fantastic 6 | Polished the GUI to look more professional by adding CSS. Enhanced the registration scene to include password, license plate, and driver number requirements. Made the rider and driver scene more functional. Replaced requirements #7 and 8 with new shall statements. After v1.1 we decided to replace the credit card system with a virtual currency system called OAC points. We found this to be easier to implement securely. Requirement 11 was modified to be more specific with the categories that the rider can select. The rider scene included a user profile picture and a reamp in the design. The user profile picture does not save at the moment though. |

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**Contents of this Document**

[Introduction](#gjdgxs)

* [Software to be Produced](#30j0zll)
* [Definition, Acronyms, and Abbreviations](#1fob9te)

[Product Overview](#3znysh7)

* [Assumptions](#2et92p0)
* [Use Case Diagram](#4d34og8)
* [Use Case Descriptions](#3dy6vkm)

[Specific Requirements](#1t3h5sf)

**SECTION 1: Introduction**

Software to be Produced:

* Order A Car will provide users of the product to both sign up to drive and sign up to ride. Riders will create profiles that contain destinations, payments, and dates/times. Drivers will create profiles that contain car types, car capacity, dates/times, locations, and a rating system. Map functionality will be integrated into Order A Car that allows for drivers and riders to see real time functionality of the application. Order A Car will utilize a database to store information required by drivers and riders.

Definitions, Acronyms, and Abbreviations:

* This section is empty, for the time being. Definitions, acronyms, and abbreviations may be updated in the future.

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

Assumptions:

* As we progress through the project, we will update assumptions. At this point, we need to understand the system better before we can make assumptions.

Use Case Descriptions: **This section needs to be updated to reflect use cases (should not include shall statements, those belong in section 3, specific requirements)**

* Manage profile – This use case allows both Riders and Drivers to edit the information in their profile, including: email, bank information, favorite locations.
* Driver profiles Driver profiles will have more editable information, including car specifications and license information.
* Choose Trip destination – This case will make it possible for Riders to select where they would like to be taken to.
* Make payment - This case allows the Rider to pay the Driver after the trip.
* Receive payment - In this use case, Drivers will receive payments from Riders after a completed trip.
* Pick up time – After toggling that they are actively online, Drivers will receive pickup request from Riders in their area. This use case allows Riders to accept pickup requests that they receive.
* Vehicle selection – Both Rider and Driver can see the trip history, location and payment.
* Assign Rating – Both Rider and Driver can cancel the ride after selecting in case of an emergency.
* Rider preference - rider will be able to choose from previous or add a favorite

Use Case Diagram:  
  
A close up of a map

Description automatically generated

**SECTION 3: Specific Requirements**

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| **No:**  1 |
| **Statement:**  The User shall be able to be able to create an account with a first name, last name and  an email. |

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| **No:**  2 |
| **Statement:**  The User shall be able to see history of trips given or received. |

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| **No:** 3 |
| **Statement:**  The Rider shall be able to add a trip review on a scale of 1 to 5. |

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| **No:**  4 |
| **Statement:**  Driver profiles shall contain a history of acquired earnings through rides given. |

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| **No:**  5 |
| **Statement:**  Riders shall be able to choose the address they would like to be taken to. |

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| **No:**  6 |
| **Statement:**  Ride costs shall be determined by the distance their destination is from their chosen pickup location. |

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| **No:**  7 |
| **Statement:**  Riders shall be granted 100 OAC points on registration of account. |

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| **No:**  8 |
| **Statement:**  Drivers shall be rewarded OAC points from completing rides. |

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| **No:**  9 |
| **Statement:**  Riders shall be able to be picked up for a ride or to schedule a ride for a later time. |

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| **No:**  10 |
| **Statement:**  Riders shall be able to select the person capacity of the car that their driver will pick the driver up in. |

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| **No:**  11 |
| **Statement:**  Riders shall be able to select a make, model, car type, and year of the vehicle that the driver will pick the rider up. |

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| **No:**  12 |
| **Statement:**  The system shall allow the user to reset password in case they are unable to access their account. |

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| **No:**  13 |
| **Statement:**  The system shall allow the Riders to add favorite places, such as a “Home” or “Work” location. |

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| **No:**  14 |
| **Statement:**  Driver profiles shall display a history of earnings,  which will show averages earnings per trip, total earnings, and total earnings over a chosen period. |

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| **No:**  15 |
| **Statement:**  The system shall allow the User to cancel the pickup request. |

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| **No:**  16 |
| **Statement:**  The system shall allow the Driver to toggle whether they are actively available to pick up Riders. |

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

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