Assignment 2: Software Requirements Specification

Team: Warriors on Wheels

Project Title: Warrior Wagons

## Members:

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3. Nidhi Nadig
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| **Meetings date** | **Participants** |
| 01/26/2020 | Saloni, Evan, Nidhi, Darpan |

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| **Stakeholders** | **Requirements** |
| All | FR1: Login page through JWT  FR2: Create user profile with name, address, phone number, access Id and password  FR3: See Pickup Locations on Map  FR4: Toolbar menu helps navigate to 3 different pages  FR5: Drivers and Passengers get a push notification when Driver starts the ride  FR6: Users can rate each other after a ride is over |
| Passenger | FR7: Find ride  FR8: Show Driver and Car information  FR9: Opt out of ride  FR10: Transaction at the end of the ride |
| Driver | FR11: Add driver profile with departure location, and common departure times, and description & picture of vehicle  FR12: Advertise future ride with departure time, location, and number of passengers in vehicle  FR13: View all active Rides on a list my rides page  FR14: Driver gets notification when a passenger joins their ride or opts out of ride  FR15: Driver can cancel ride  FR16: Options to Start ride, Mark a passenger as picked up and End Ride |
|  | NR1: Availability - 100% uptime  NR2: Security – App will be secured through encrypted token  NR3: Driver cannot choose their passengers  NR4: Performance - App should perform on all Android devices with android 8.0 and higher  NR5: Usability – User friendly user interface |

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| **FR1. Login page through JWT** | | |
| Goal: The system will greet the user with a login page where there will be able to login using a basic authorization using our API | | |
| Stakeholders: All | | |
| When a user opens the app, they will be greeted with a login or register screen. If they choose login, the login credentials would be the access id and password of the user and would be authenticated using basic authorization through our API. | | |
| Origin: Based on Sprint 2 planning, team members came up with this description during a scum meeting. | | |
| Version: 1.0 | Date: 01/26/2020 | Priority: 1 |

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| **FR2. Create user profile with name, address, phone number, access Id and password** | | |
| Goal: Prompt to create user profile with name, address, phone number, access Id and password. | | |
| Stakeholders: All | | |
| When a user opens the app, they will be greeted with a login or register screen. If they choose register, they will be prompted to enter their name, address, phone number, access Id and password. Once they press Finish, their user profile will be created, and they will be directed to the login page. | | |
| Origin: Based on initial project specification document, team members came up with this description during the first meeting. | | |
| Version: 1.0 | Date: 01/26/2020 | Priority: 1 |

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| **FR3. See pickup locations on the map** | | |
| Goal: Drivers and Passengers should be able to see the pickup locations for all passengers on the map | | |
| Stakeholders: All | | |
| After a passenger confirms the ride and views driver information, they will have an option to go to the maps to see all the pickup locations of all the passengers that are part of the ride. Similarly, after the driver starts the ride, they will be able to see all the pickup locations of all the passengers that are part of the ride. | | |
| Origin: Based on initial project specification document, team members came up with this description during the first meeting. | | |
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| **FR4. Toolbar menu helps navigate to 3 different pages** | | |
| Goal: Toolbar on every page has navigation to the Home Page, My profile page and Sign out | | |
| Stakeholders: All | | |
| On every page, there is a toolbar menu at the top-right corner of the page. This menu has Home Page option, My Profile option and a Sign out option. If the user clicks Home Page, the app takes the user to the Home. If the user clicks User Profile Page, they are navigated to a page that displays all their user information and Driver information if they are a driver. If the user clicks the Sign out option, they are signed out and taken to the login page. | | |
| Origin: Based on initial project specification document, team members came up with this description during the first meeting. | | |
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| **FR5. Drivers and Passengers get a push notification when Driver starts the ride** | | |
| Goal: Drivers and Passengers will be notified via Push notification when the driver clicks the start ride button. | | |
| Stakeholders: All | | |
| When the driver clicks Start Ride on the Find Passengers page, all the passengers and the Driver are notified via push notifications. | | |
| Origin: Based on initial project specification document, team members came up with this description during the first meeting. | | |
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| **FR6.**  **Users can rate each other after a ride is over** | | |
| Goal: At the end of the ride, Drivers and Passengers will be able to rate each other. | | |
| Stakeholders: All | | |
| On the ride map page, there will be an option to end ride for drivers. When this button is clicked, the driver will be prompted to rate the passengers from 0-5 stars. After the passenger pays, they will be prompted to rate the driver from 0-5 stars. This rating will be applied to the user’s total rating | | |
| Origin: Based on initial project specification document, team members came up with this description during the first meeting. | | |
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| **FR7. Find Ride** | | |
| Goal: Passenger will be able to pick a ride based on a list of rides’ and their departure times and arrival locations. | | |
| Stakeholders: Passengers | | |
| When looking for a ride, the passenger will be shown a list of all available rides. The list will include the driver’s departure times and arrival location. The passenger can click any of these rides to get additional information like departure location and number of passengers. Based on this information, they will confirm the ride that fits them best. | | |
| Origin: Based on initial project specification document, team members came up with this description during the first meeting. | | |
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| **FR8. Show Driver and Car information** | | |
| Goal: Passenger will be able to see the Driver and car information after they confirm ride. | | |
| Stakeholders: Passengers | | |
| After the passenger confirms the ride they want, they will be taken to a Driver Information page where they can see information such as driver’s name, phone number, rating, date of the ride, time of the ride, and the make model and year of the car. | | |
| Origin: Based on initial project specification document, team members came up with this description during the first meeting. | | |
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| **FR9. Opt out of ride** | | |
| Goal: Passenger will be able to opt out of ride one before the Driver Starts the ride. | | |
| Stakeholders: Passengers | | |
| On the driver info page, there will be an option to opt out of ride. The passenger will be able to opt out of their ride before the driver starts their ride. They will be removed from the driver’s passenger list and the driver will receive a push notification. | | |
| Origin: Based on initial project specification document, team members came up with this description during the first meeting. | | |
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| **FR10. Transaction at the end of the ride** | | |
| Goal: Monetary transaction between passenger and app will occur once the ride ends, | | |
| Stakeholders: passengers, drivers | | |
| Once the passenger clicks end ride on the ride map page, the passenger will be charged the appropriate amount of money and enter their payment information to pay. The app will receive a percentage of this transaction. The driver will receive the rest. | | |
| Origin: Based on initial project specification document, team members came up with this description during the first meeting. | | |
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| **FR11.** **Add driver profile with departure location, and common departure times, and description & picture of vehicle** | | |
| **Goal:** Having a way to differentiate between passengers and drivers, and have drivers be able to save information on the app that passengers would not also need to make available. | | |
| **Stakeholders:** Drivers | | |
| After creating a general user profile, users will be given the option to create a secondary driver profile, where they will be required to give some general information, such as their name and contact information, and some additional information a passenger would not have to provide, such as their departure location and a description/ picture of their car. It is with this profile that users can post on the app that they are going to/from campus and at what time for users in need of a ride to join them. | | |
| **Origin:** Team members came up with this description during the first meeting. | | |
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| **FR12.** Advertise future ride with arrival location, departure time, location, and number of passengers in vehicle | | |
| **Goal:** Drivers will be able to advertise a ride so that passengers can join them. | | |
| **Stakeholders:** Drivers | | |
| If the user is a driver, there will be a “Share a ride” option on the homepage. Once clicked, the driver will be prompted to put in the arrival location, departure time, location and number of passengers. Once the driver hits finish, this ride will be now available in the Ride list the passengers can see. | | |
| **Origin:** Team members came up with this description during the first meeting. | | |
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| **FR13.** View all active Rides on a list my rides page | | |
| **Goal:** The driver can see a list of all the rides they have posted that are currently active | | |
| **Stakeholders:** Drivers | | |
| If the user is a driver, on the Home page, there will be a “List My rides” option. When clicked, the user will be taken to a page which will list all the active rides the user has. If there are no active rides for that user, it will show “No active rides available” and will have a button that directs to Share a Ride page. | | |
| **Origin:** Team members came up with this description during the first meeting. | | |
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| **FR14.** Driver gets notified when a passenger joins their ride or opts out of ride | | |
| **Goal:** The driver gets a notification when a passenger joins or opts out of their ride | | |
| **Stakeholders:** Drivers | | |
| The Driver will receive a push notification every time a passenger joins their ride or opts out of their ride. This will help the driver keep updated with their ride without having to open the app everytime. | | |
| **Origin:** Team members came up with this description during the first meeting. | | |
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| **FR15.** Driver can cancel ride | | |
| **Goal:** If drivers cannot give users a ride anymore, they can cancel the ride. | | |
| **Stakeholders:** Drivers | | |
| On the find passengers page, there will be an option for the driver to cancel the ride. If there is a change after the driver posts their ride, they have the ability to cancel their ride by clicking this button. | | |
| **Origin:** Team members came up with this description during the first meeting. | | |
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| **FR14.** Options to Start ride, Mark a passenger as picked up and End Ride | | |
| **Goal:** Driver informs the passengers that he has started the ride | | |
| **Stakeholders:** Drivers | | |
| When the driver leaves their location at the determined time, they will mark that they have started the ride through the app. This will send a notification to the passengers that need to be picked up so that they can be prepared to meet the driver. Then, when a passenger is picked up, the driver will have the option to mark a passenger as picked up. At the end of the ride, the driver can end the ride for everyone. | | |
| **Origin:** Team members came up with this description during the first meeting. | | |
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| **NR1.** Availability - 100% uptime | | |
| **Goal:** To make sure the app is up and running 24/7. | | |
| **Stakeholders:** All | | |
| The app will be available to use at all hours of the day, without any restrictions to ensure customer satisfaction. This will ensure that passengers are not stranded either on campus or their location. | | |
| **Origin:** Team members came up with this description during the first meeting. | | |
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| **NR2.** Security – Security – App will be secured through encrypted token | | |
| **Goal:** The apps users will be verified through their encrypted token | | |
| **Stakeholders:** All | | |
| Whenever a user signs in, they are assigned an encrypted token which will verify the identity of the users to make the app safer and allow authentication to be done under a third party which makes sure that as administrators, we also cannot see user data. | | |
| **Origin:** Team members came up with this description during the first meeting. | | |
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| **NR3.** Driver cannot choose their passengers | | |
| **Goal:** To make sure rides are unbiased/ drivers cannot discriminate against passengers | | |
| **Stakeholders:** All | | |
| Drivers are assigned a list of passengers on a first-come first-serve basis. Drivers cannot discriminate against passengers. | | |
| **Origin:** Team members came up with this description during the first meeting. | | |
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| **NR4.** Usability- App should be compatible on all Android devices with android 8.0 and higher | | |
| **Goal:** To ensure any android user with android 8.0 and higher can use our app | | |
| **Stakeholders:** All | | |
| Some of our features are advanced and unfortunately do not support devices that are android 7.0 and lower. Despite this, the app still supports a large number of users as majority of the android phones do have version 8.0 and higher. | | |
| **Origin:** Team members came up with this description during the first meeting. | | |
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| **NR5.** Usability – User friendly user interface | | |
| **Goal:** To make the app easy to use | | |
| **Stakeholders:** All | | |
| A user-friendly interface will allow the app to be used with ease and make sure that users do not have issues when trying to use the application. | | |
| **Origin:** Team members came up with this description during the first meeting. | | |
| Version: 1.0 | Date: 01/26/2020 | Priority: 1 |