## **TESTING PLAN**

To test the application, we have created a user story to cover all the of them in the test cases. This carpooling application basically consists of 2 parts:

1. User End
2. Pooler End

Each part shall include a set of end user behaviour patterns.

## **Unit Testing:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sr. Num | Test Case | Description | Input Data | Expected Output |
| 1. | User Login | Username/password is wrong | Wrong username/password | Enter correct username and password |
| 2. | User Registration | While registering, the password entered and confirm password should match. | Dissimilar passwords | Set password and Confirm Password should be the same. |
| 3. | User Registration | While registering, the user should be able to enter the details as per the nature of the text field that is for name only alphabets, for phone number only digits | Enter numeric in name field | Nothing should be printed when numbers are entered. |
| 4. | Request Ride | While requesting for a ride, the user should be able to enter the details as per the nature of the text field that is for name only alphabets, for phone number only digits | Enter alphabets in contact number | Nothing should be printed when numbers are entered. |
| 5. | Request Ride | Pickup Location, Drop Location | Incorrect Pickup location | Enter valid location |
| 6. | Request Ride | Pickup Time entered should be a valid time and, in the future | Time that has already passed | Time entered is incorrect |
| 7. | Location & Tracing | By using GPS, user’s location should be identified accurately | Bu using GPS, the mobile application would be able to correctly identify the user’s location | A valid and correct location |
| 8. | SMS | User should get a notification of the ride details |  | A sms with all the ride details |
| 9. | Fare Calculation | Fare should be calculated as per the distance travelled and the tolls passed | Pickup and Drop Location eg. Pickup – Dalhousie University & Drop – Value Village, Dartmouth | Correct calculation of fare as per the distance between them |

Apart from these test cases, we will be testing all the buttons and spinners in the application for their functionality.

## **Integration Testing**

After each unit has been tested separately for their functionality, the modules are then integrated together in groups to test their functionalities.

We shall start with integrating the Registration and User Login pages together and will subsequently build on these after successful integration.

## **System Testing**

After all the modules have been integrated together, the entire application will be tested for the functionalities and the working of the application as per the proposal.

References:

https://www.ijarcce.com/upload/2016/march-16/IJARCCE%20138.pdf