

Project Specification

Rowan Rideshare

By: Michael Matthews, John Stranahan, Tapan Soni, Benny Liang,
Benny Chen, Wen Cao, Nicholas La Sala, Tyler Carberry
Scrum Master: John Stranahan

Github: <https://github.com/TylerCarberry/RowanRideshare>
Slack: [Fall2018seniorproject.slack.com](https://fall2018seniorproject.slack.com)

Project Summary

The purpose of our app is to help students find other students who also commute to Rowan and live in the same general area as they do. This is done by showing how many Rowan students live in the user's specified radius and what their schedules are. From there, either person can contact the other to set up a carpooling schedule.

Project Goals

The main goals of this project are to:

1. Develop a user friendly application which allows people to see who, in there particular radius, has the same commute as they do.
2. Reduce traffic on the Rowan Main Campus and the surrounding communities.
3. Reduce pollution from cars, save students money, and reduce the likelihood of car accidents.
4. Improve parking quality at Rowan by decreasing the number of cars.

Product Features

1. **App:** Our application will be available for both iOS and Android.
2. **Login:** Login is done by signing in with their Rowan email address. This will be achieved by using Google OAuth. In order to restrict access to Rowan students, users must sign in with their @rowan.edu email address. They must also accept the terms of use and the privacy policy.
3. **Origin Address:** Type in your current address or choose from a list of popular campus/Glassboro locations. You could also use your device's GPS to select the current location. This should include map visualization in the user interface.
4. **Destination Address:** Type in your current address or choose from a list of popular campus/Glassboro destinations. This should include map visualization in the user interface.
5. **Sort by distance:** The app shows the a list of commuters sorted by distance closest to you
6. **Time to arrive/depart:** Users can specify the time they'd like to arrive at their desired destination. This will typically correspond to their class schedule.

7. **Trips:** Users have the ability to save their previous trips to quickly search for partners.
8. **Chat system:** Users have the ability to chat with each other from the app. The chat supports 2 users and is only a text chat. This would protect the users' phone numbers and add a layer of abstraction to the contact mechanism. If the users wanted to text with their phone numbers, they could share it within the chat system and then switch over to regular texting apps in the future.

Limitations

Limitations of our project include but are not limited to the following:

1. The scope is currently limited to Rowan students - the start or end point must be Rowan University.
2. Can't guarantee the vehicle condition or the safety of passengers.
3. Can't guarantee a ride for users.

Stretch Goals

In terms of stretch goals, these are the additional features we'd like our product to have:

1. A way for users to set up their commute calendar based on their schedules.
2. A notification system that reminds drivers and passengers of upcoming planned commutes.
3. A way for a user to be picked up if their starting destination is along a driver's route to the driver's ending destination. For example, if a student is coming from North Jersey they can pick up a student from Central Jersey, even though they don't live close together.
4. Larger carpool groups: Our minimum viable product is to support 1 driver and 1 passenger. Our stretch goal is to support multiple stops and more than 1 passenger.
5. The ability to keep a list of their favorite commuters. They can add to this list by searching for another user's email.
6. An achievement/badge system to reward users who carpool often.
7. See available carpool partners, walking partners, transit partners.
8. Commute Calendar: Set up your commute calendar. Automatically publishes your route before it is open to show others your planned trip.

9. Support trips that do not start or end at Rowan University. This can include commuting to work or trips with other destinations.