CS 446/646 Project Proposal: CarLOOp

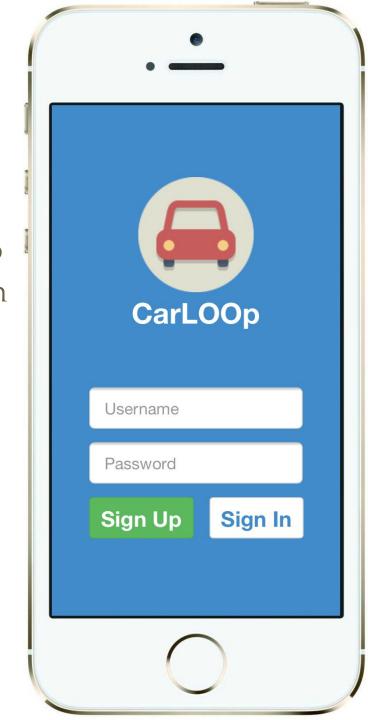
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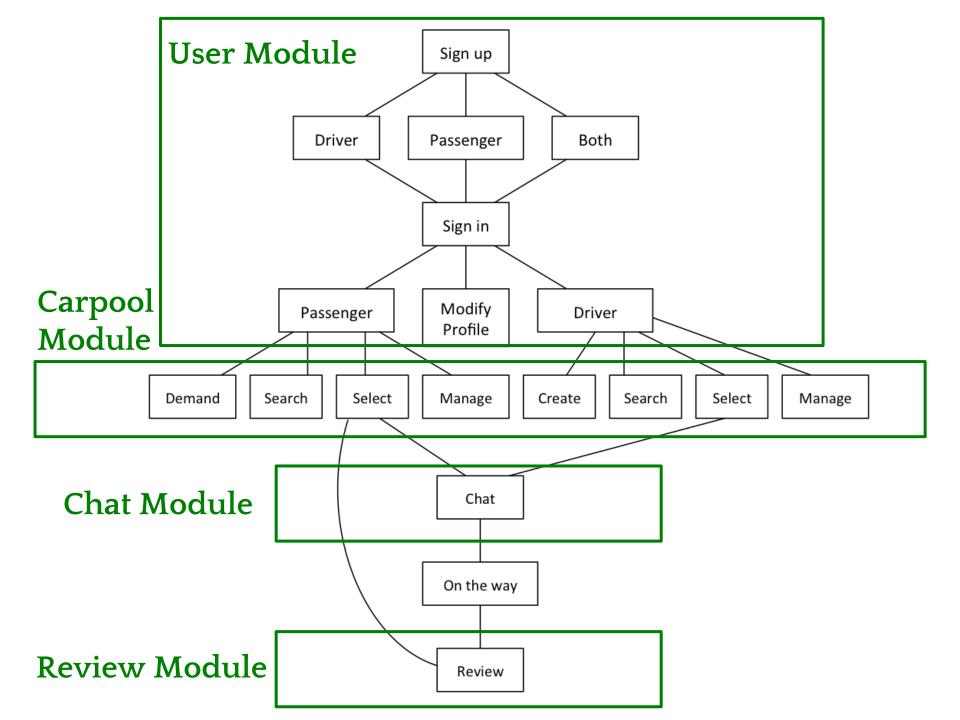
CarLOOp

• Purpose?

For those who have experience in carpool, they might find it's difficult to find carpool information. Even though they have found one, the **negotiation** between drivers and passengers on pick-up time and location becomes a serious problem.

Therefore, a well-developed application for carpool is necessary and significant.

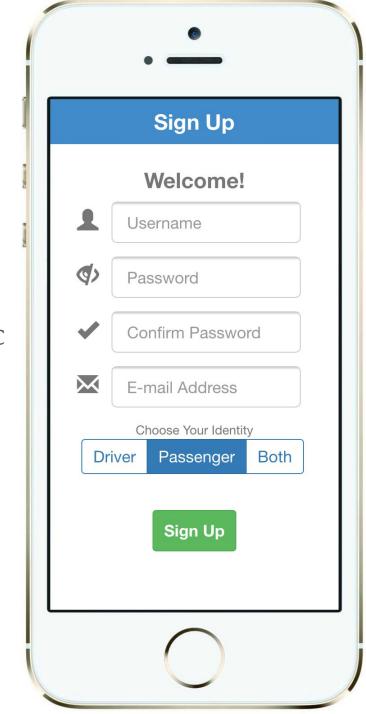




User Module

Sign Up

- First-time users of CarLOOp need to sign up for an account.
- Users need to provide their basic information.
- Choose their identity as a driver, passenger or both.



User Module

• Sign In

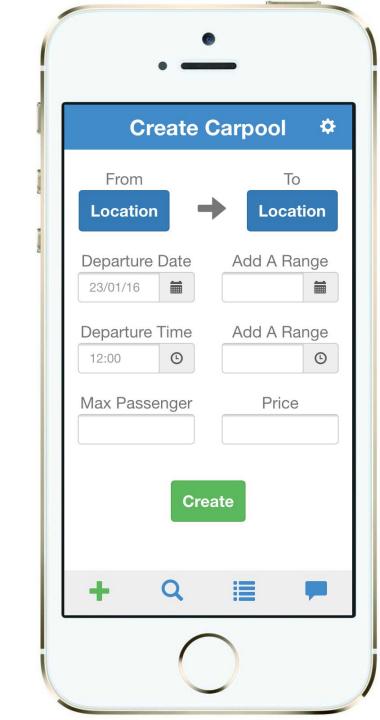
- CarLOOp will remember the input information once the user login in for the first time.
- This app will have two sets of UI designed for passengers and drivers to access different functions.
- For users signed up as both identities, the app will display the UI for drivers as default and will allow users to switch their identity in the app.

User Module

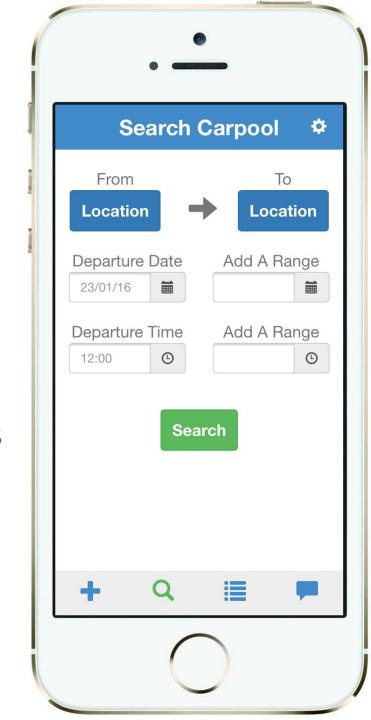
Manage Profile

- Users can add and edit personal information to their profile.
- Users can also reset and retrieve their passwords.

- Create Carpool (drivers)
- Demand Carpool (passengers)
- Carpool Info:
 - Departure & Arrival Location (set through Google Map API)
 - Departure Date & Time
 - Ideal Price
 - Max Passenger (drivers)

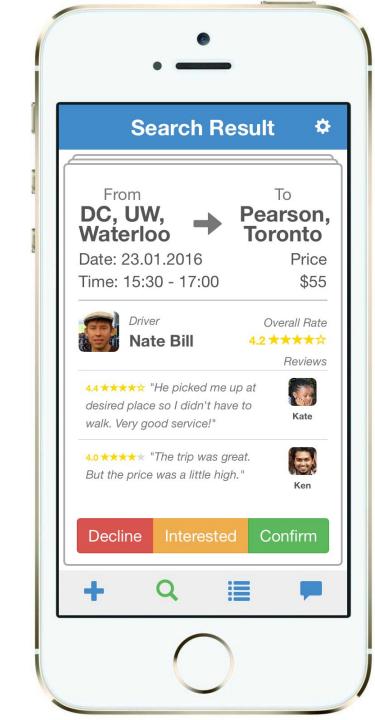


- Search Carpool
- Search Algorithm:
 - Valid date and time
 - Shortest walking distance
- Search Result:
 - A list of top-matched carpools

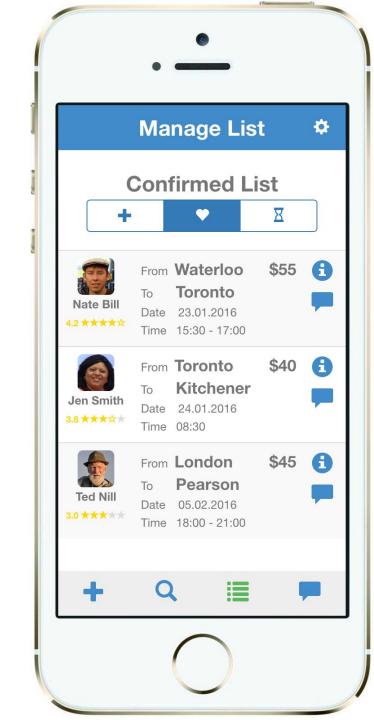


- Select Carpool
- Select from search result
 - Carpool Info
 - Driver's Rating & Reviews
- Decline: Bad match
- Interested: Check later
- Confirm: Perfect match

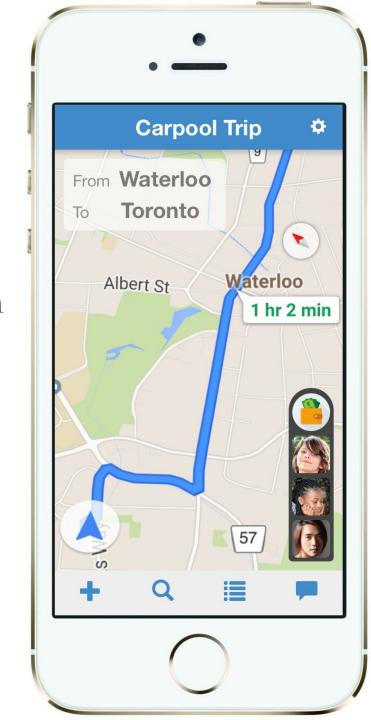
 Drivers can search & select among demanded carpools



- Manage Carpool List
- Demand List:
 - Edit demand post
 - Receive notifications
- Interested List:
 - Check, compare carpools
 - Discuss carpool details
- · Confirmed List:
 - Check schedule
 - Complete carpool trip
- Drivers: Created List



- Carpool Trip
- Before:
 - Passengers confirm they get in the car
- During:
 - Navigate driver to destination (Google Map API)
- After:
 - Driver confirm payment
 - Passengers rate & review



Chat Module

- Automatically join real-time group chat for interested Carpool postings
- Discuss details, departure time, price, pickup location, etc



Review Module

- Rate driver and write reviews after trips
- Serve as reference for other passengers

Thank you! ©

CarLOOp