# CS 446/646 Project Proposal: CarLOOp

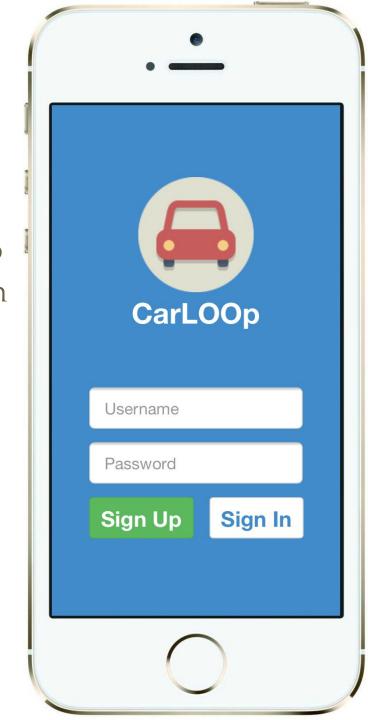
BUF: Yongqi An, Xin Jin, Lingyun Li, Zijin Li .....

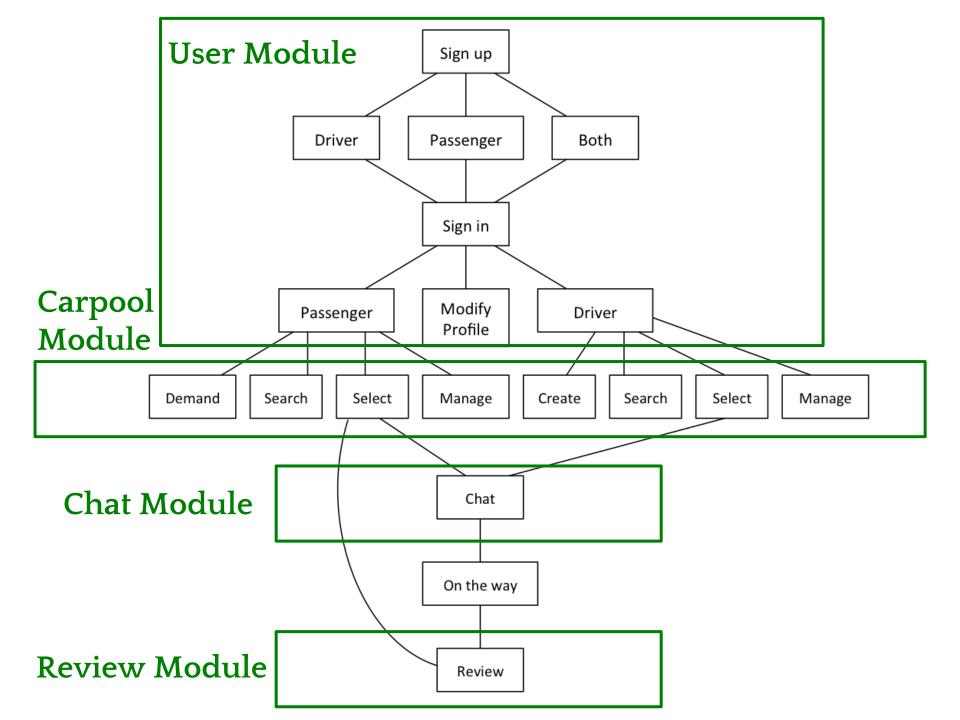
## CarLOOp

#### • 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.

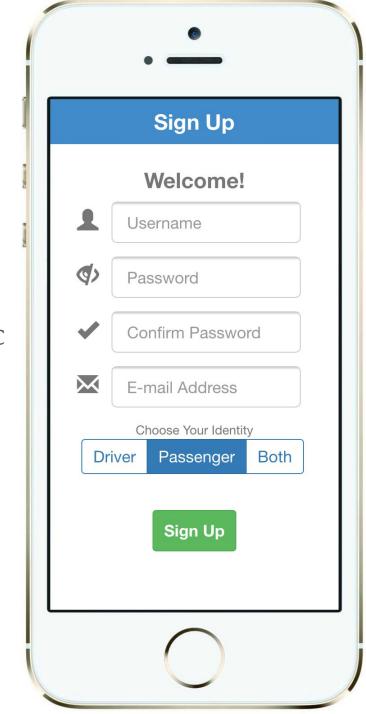




## User Module

#### 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

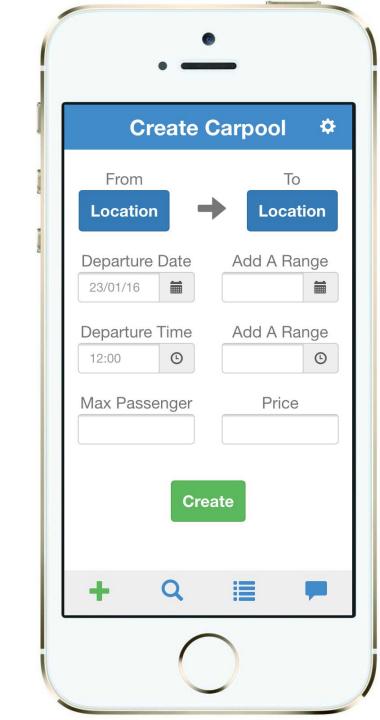
- CarLOOp will remember the input information once the user login in for the first time.
- This app will have two sets of UI designed for passengers and drivers to access different functions.
- For users signed up as both identities, the app will display the UI for drivers as default and will allow users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

## User Module

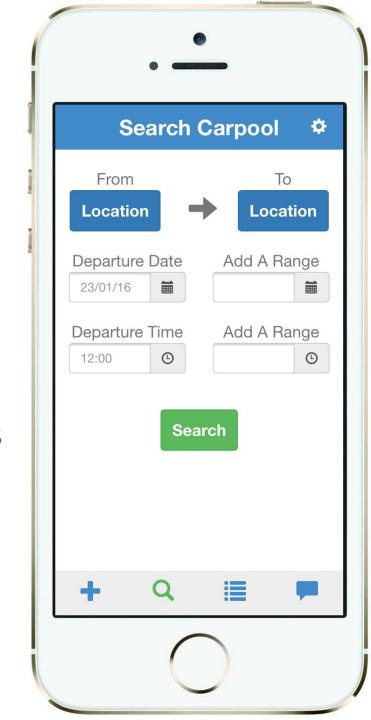
#### Manage Profile

- 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)
  - Other comments



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

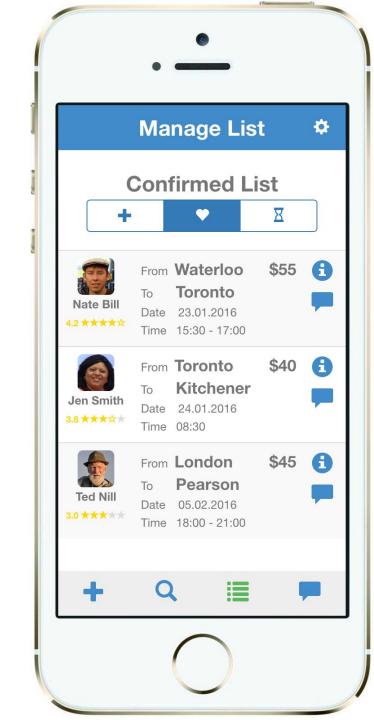


- Select Carpool
- Select from search result
  - Carpool info
  - Driver's rating & reviews
- Decline: bad match
- Interested: check later
- Confirm: perfect match

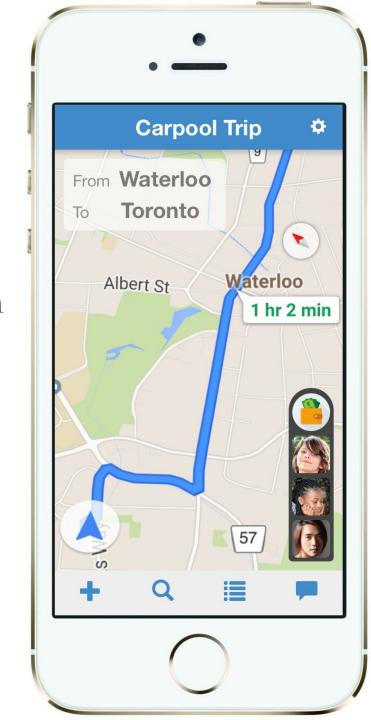
 Drivers can search & select among demanded carpools



- 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.
- Keep activated for attending passengers when confirmation number reaches maximum
- Optional notifications



#### Review Module

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

## Thank you! ©

CarLOOp