RidePool

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Purpose

Description:

- Schedule & plan ride sharing in advance!

Purpose:

- Allows for coordinated trips, splitting Uber / Lyft costs, and meeting new people!
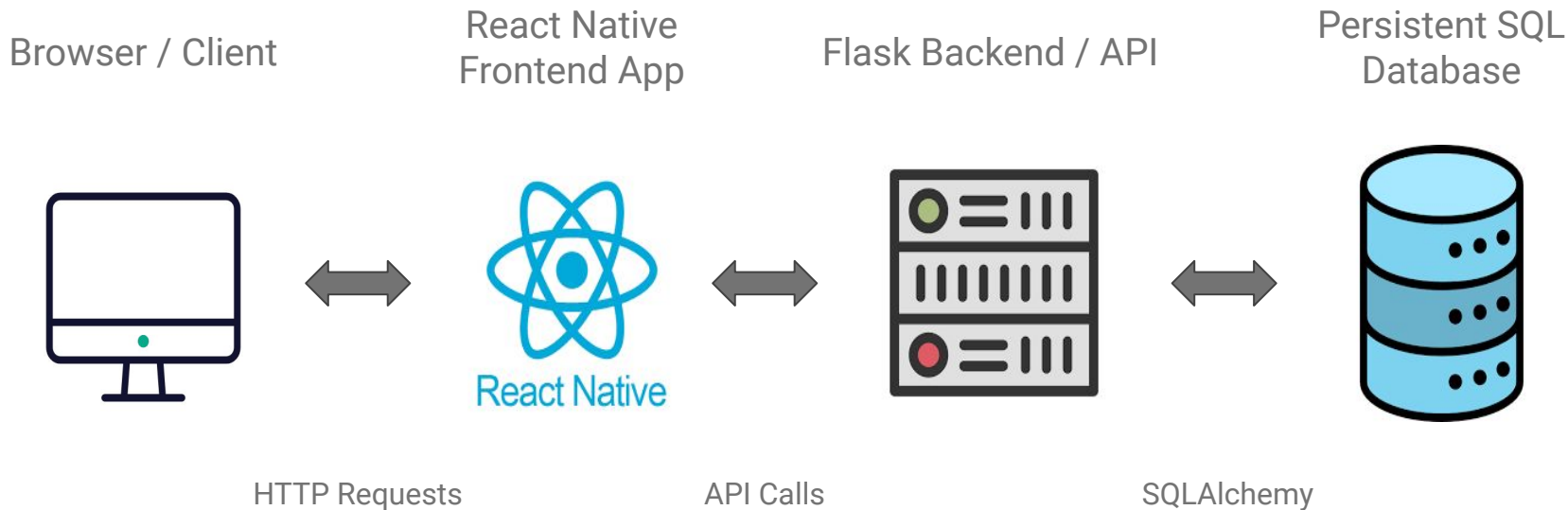
Motivation:

- Ride sharing services are expensive (especially LA)
- Convenient and flexible planning of trips for various locations, dates, etc

RIDEPOOL

Implementation & Technology

Browser / Client

React Native
Frontend App

Flask Backend / API

Persistent SQL
Database

HTTP Requests

API Calls

SQLAlchemy

Basic Features

Authorization

Features

- Register as a new user
- Login with your user and password
- Password hashing in backend
- Authorization checking:
  - Upon login, you are given a JWT token in backend for current session
  - This token is used to validate user access in all API calls
  - Tokens expire after some time and are removed upon logging out

Carrier 🛜   5:58 PM

Login

Username

Password

Submit

New User? Click to Sign Up.

Create New RidePool

Features

- Pickup and Destination along with radius for pickup and dropoff
- Set range for pickup time for other members
- Specify group size and overall description for ridepool

Search & Request to Join Existing RidePools

Features

- Search and filter RidePools to join
  - Data & time ranges
  - Pickup and Destination locations
  - Acceptable radii thresholds
  - Sort results by various keys
    - Earliest pickup time
    - Closest pickup to desired pickup location
    - Closest drop off to desired drop off location
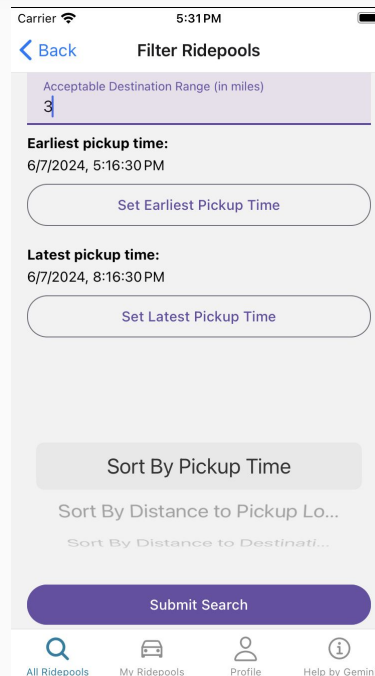
Get Contact Info for your RidePool Members

Features

- Get access to contact info of members in your ride
- Reach out and coordinate splitting ride costs

Active Ride Members

FirstName LastName1
Username: u1
Rating: 4
Phone Number: 1234567891

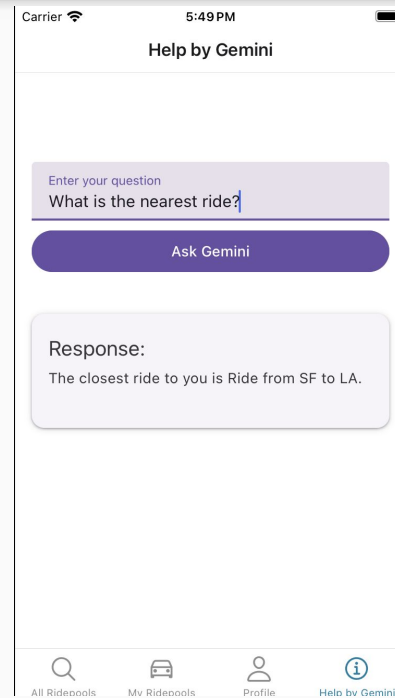All Ridepools   My Ridepools   Profile   Help by Gemini

Unique Features

Gemini (Unique Feature 1)

- Answers questions based on app:
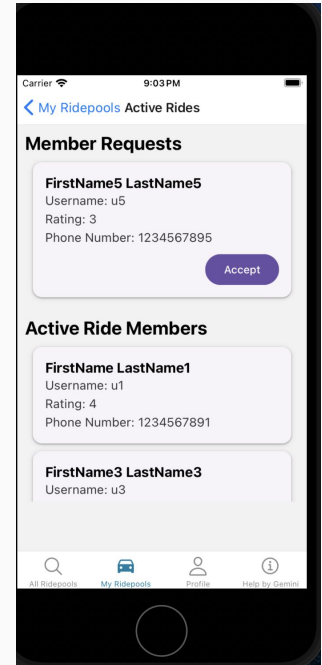 - Examples:
    - What is the nearest ride?
    - How many users do you have?
    - What is the busiest day
    - Etc.
  - *Bonus Easter Egg Question*

Private Rides (Unique Feature 2)

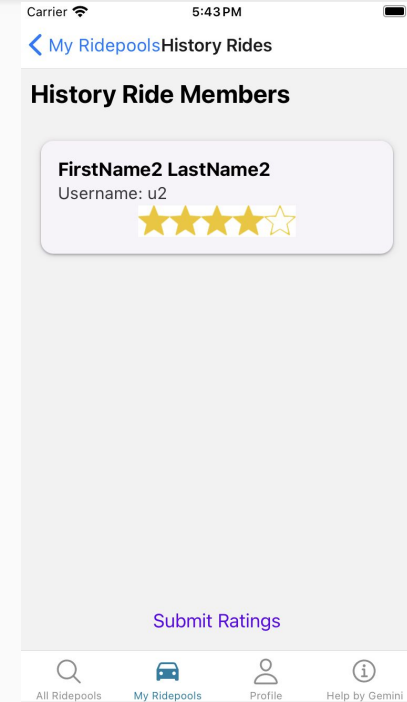## Features

- As the creator of the ride, you can decide which join requests to accept / reject
- As a requester, you'll be added as a member if the creator of the ride accepts your join request

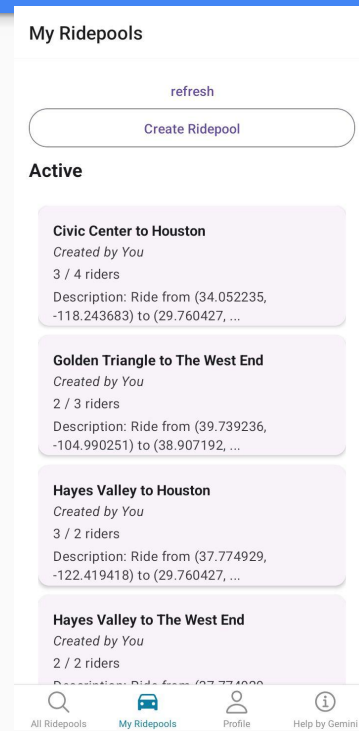# Rate your Experience (Unique Feature 3)

Features

- Rate each member in your ride after the ride ends
- Every member has an average rating attached to their public profile

Dynamic Data Features
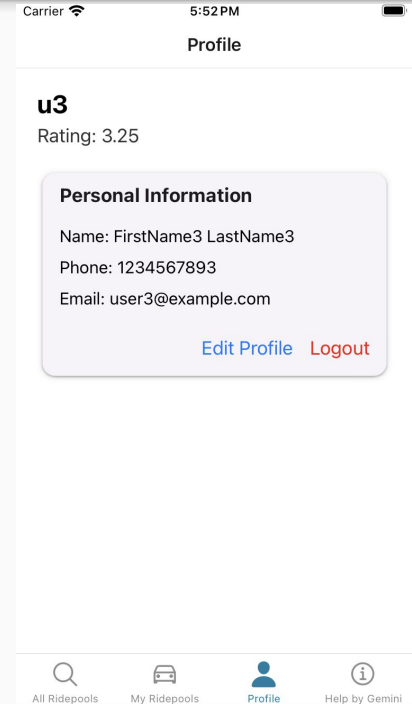
View your RidePools (Dynamic Data 1)

- View your rides
  - Active vs past rides
  - Created rides
  - Rides as a member
  - Rides you've requested to join

My Ridepools

refresh

Create Ridepool

Active

Civic Center to Houston
Created by You
3 / 4 riders
Description: Ride from (34.052235, -118.243683) to (29.760427, ...

Golden Triangle to The West End
Created by You
2 / 3 riders
Description: Ride from (39.739236, -104.990251) to (38.907192, ...

Hayes Valley to Houston
Created by You
3 / 2 riders
Description: Ride from (37.774929, -122.419418) to (29.760427, ...

Hayes Valley to The West End
Created by You
2 / 2 riders
Description: Ride from (37.774929...

All Ridepools   My Ridepools   Profile   Help by Gemini

Profile (Dynamic Data 2)

Features

- See and edit your profile & contact info
- View your average rating determined by users you've shared rides with

App Demo