



TRIP BUDDY



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The Pitch

Trip Buddy is a platform that brings together people who love getting out into the world, and who would like to join some fellow adventurers along the way!

Whether it be protecting the environment, saving on gas, or just some good company, Trip Buddy offers a painless, centralized, and social forum for trip coordination. All of this with the flexibility to plan trips how you want to take them.

Unlike platforms like Uber, Trip Buddy does not have a built in pricing structure, and does not take a cut from drivers. This gives users the freedom to decide what is personally worth it, and ultimately spend less money due to the lack of overhead fees. It also allows for friends to use Trip Buddy as a free organizational tool!



Project Description

Project Goals

- Securely keep track of all user data with authentication middleware and ensure user sessions display relevant, authorized information
- Allow users to post trips and join other users trips
- Allow trip owners to edit details of trips once created
- Allow users to directly pay another user for trips (gas money, wear & tear, etc.)
- Facilitate chat rooms where users can message one-another regarding trip details
- Maintain user profiles and provide flexible customization options

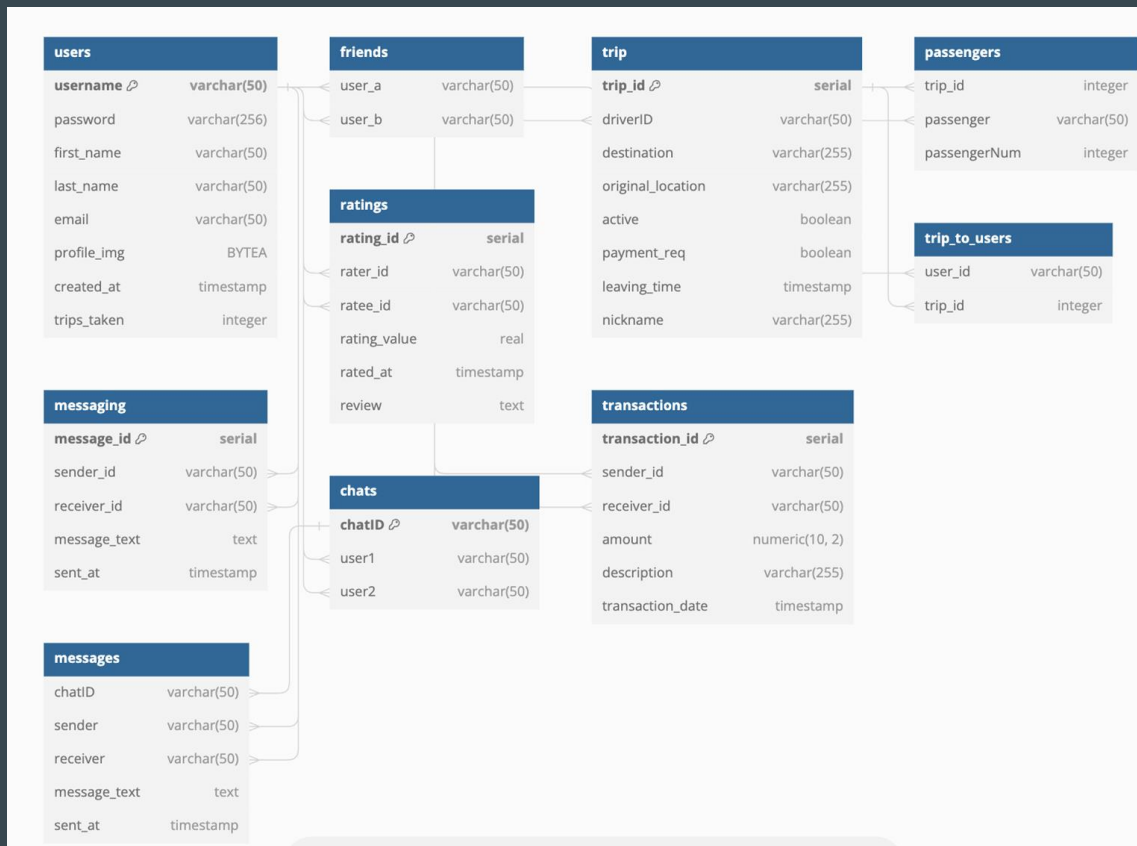


Tools used

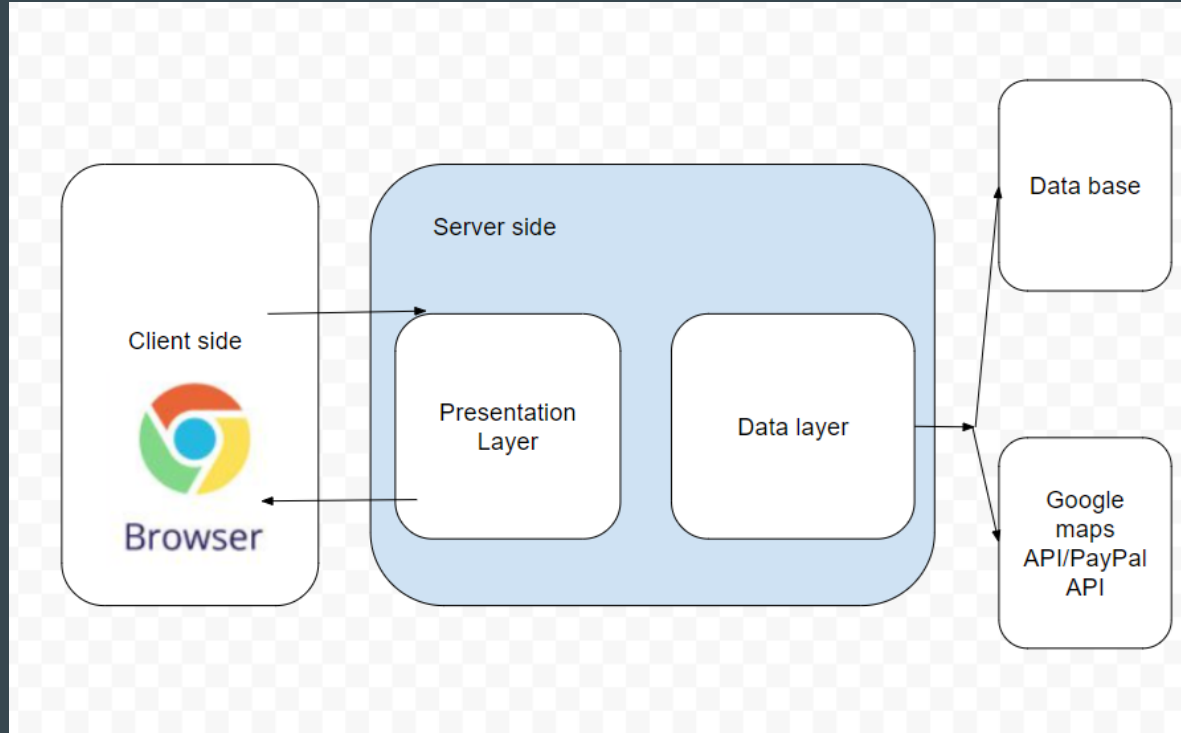
Project Tracker (GitHub projects)	★★★★	Application Server (NodeJS)	★★★★★
VCS repository (GitHub)	★★★★★	Deployment environment (LocalHost, Browser though Azure)	★★★★
Database (PostgreSQL)	★★★★★	External APIs (Google Maps)	★★★
IDE (VSCode)	★★★	Testing tool (Chia and Mocha)	★★★
UI Tools (Wireframing tools, HTML, EJS, JS)	★★★★★	Framework (Node.js)	★★★★

Primary Keys:

- Username
(users)
- Trip_id (trip)
- Message_id
(messaging)
- Rating_id
(ratings)
- Transaction_id
(transactions)



Architecture Diagram



Trials and Tribulations

We've had our share

Some of our most common issues were:

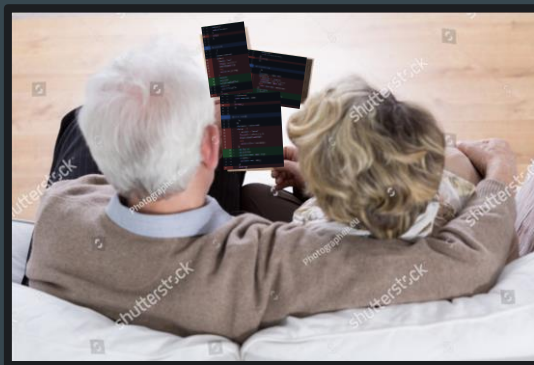
- Merge Conflicts
- Database Issues (Internal Server Errors)
- Retrofitting Old Architecture
- And the Bugs...



Memorable Bugs

Rather funny.... In retrospect

- The Curse of 3
- The Possessed Submit Button
- Can't overwrite response object
- Psycho Phillip (11pm apis not working but a simple solution)



Project Demo

<http://recitation-013-team-05.eastus.cloudapp.azure.com:3000>

Note: Can access on mobile but site was designed for web.

What else we would have like to accomplish

- Adding automatic payment calculator
- Payment before scheduled departure time
- Limit to number of seats
- Password protected user deletion
- Weather API
- Google Maps API integration to track number of miles each user has travelled
- Trip search functionality
- Trips by location