



WOULD YOU RATHER...

Speed Round



Activity Instructions



We are going to ask you some questions about intercity travel. Imagine that you are going from **Austin to Dallas.**

Raise your hand if you prefer the **first** option over the second!



READY, SET, GO



Would You Rather...

travel in a car or a bus?



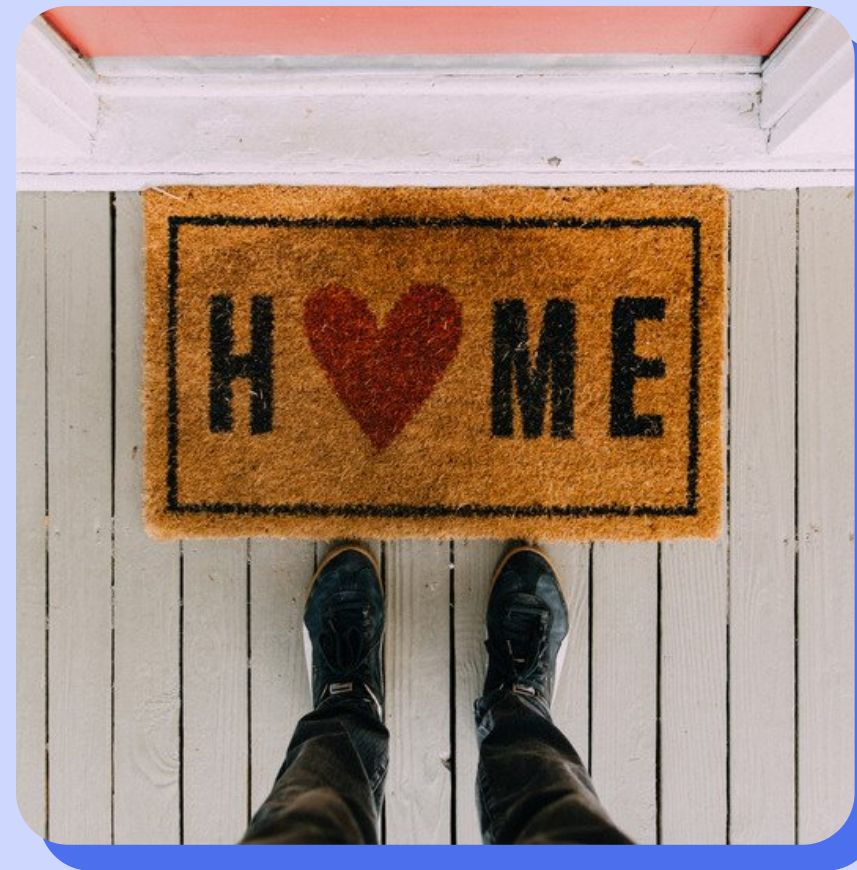
Would You Rather...

travel with a
student

travel with
strangers

Would You Rather...

Get dropped at your own destination or at a bus stop?



UNIVroom

**Abhinav Sharma, Allie Touchstone,
Aritra Chowdhury, Avery Shepherd,
Harsh Mehta, Vishal Gupta**

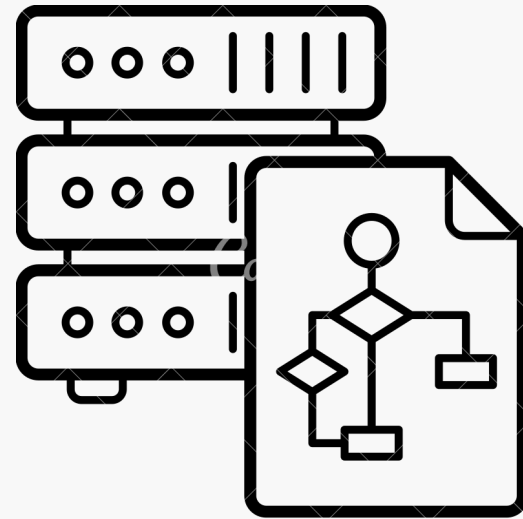


Outline

Idea



ERD



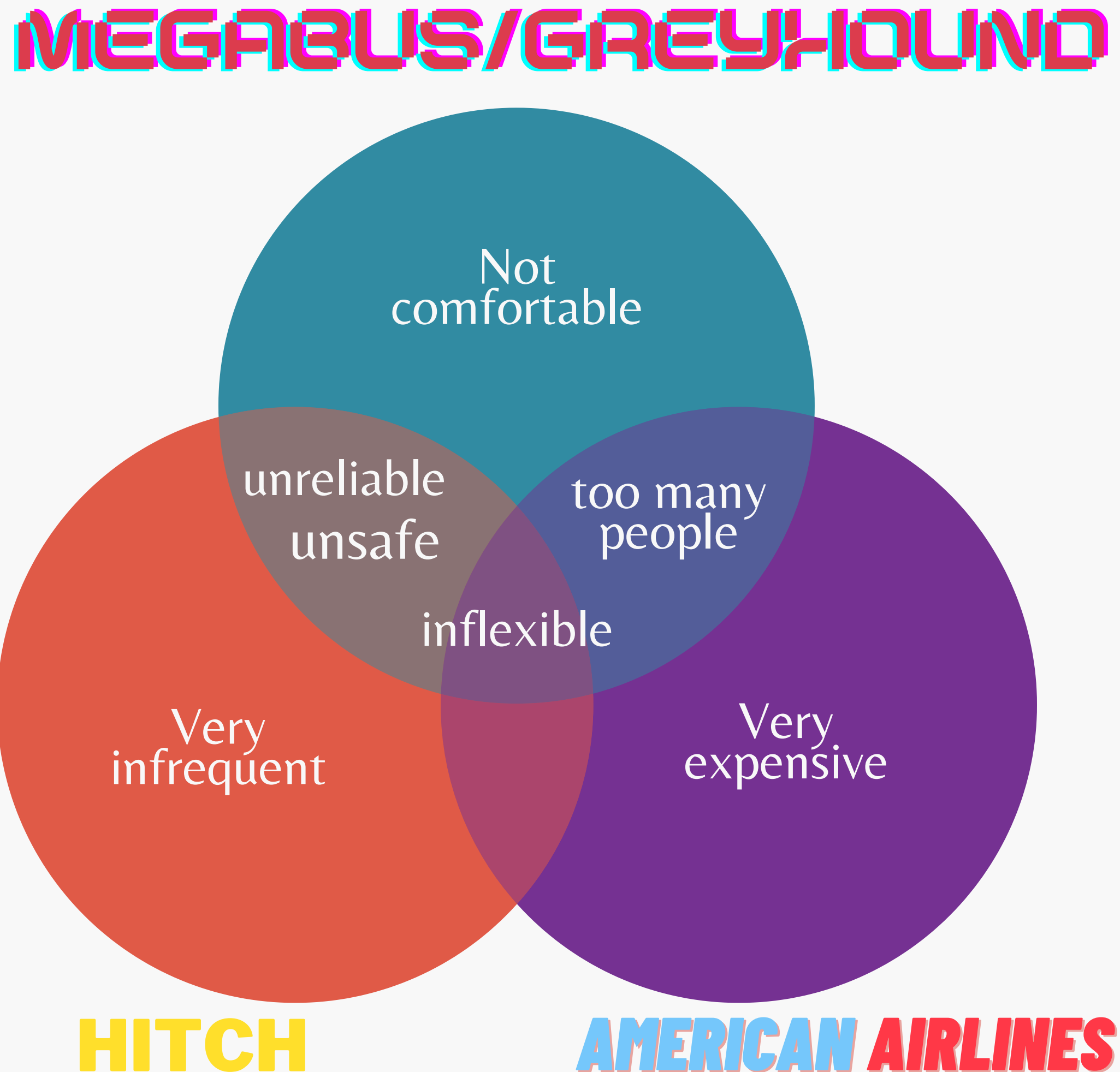
ETL

Beyond Relational

Beyond Database



Cons of current ways to travel intercity



We want to..

Give college students a way to travel intercity with:

- Increased comfort
- Increased safety
- Increased flexibility



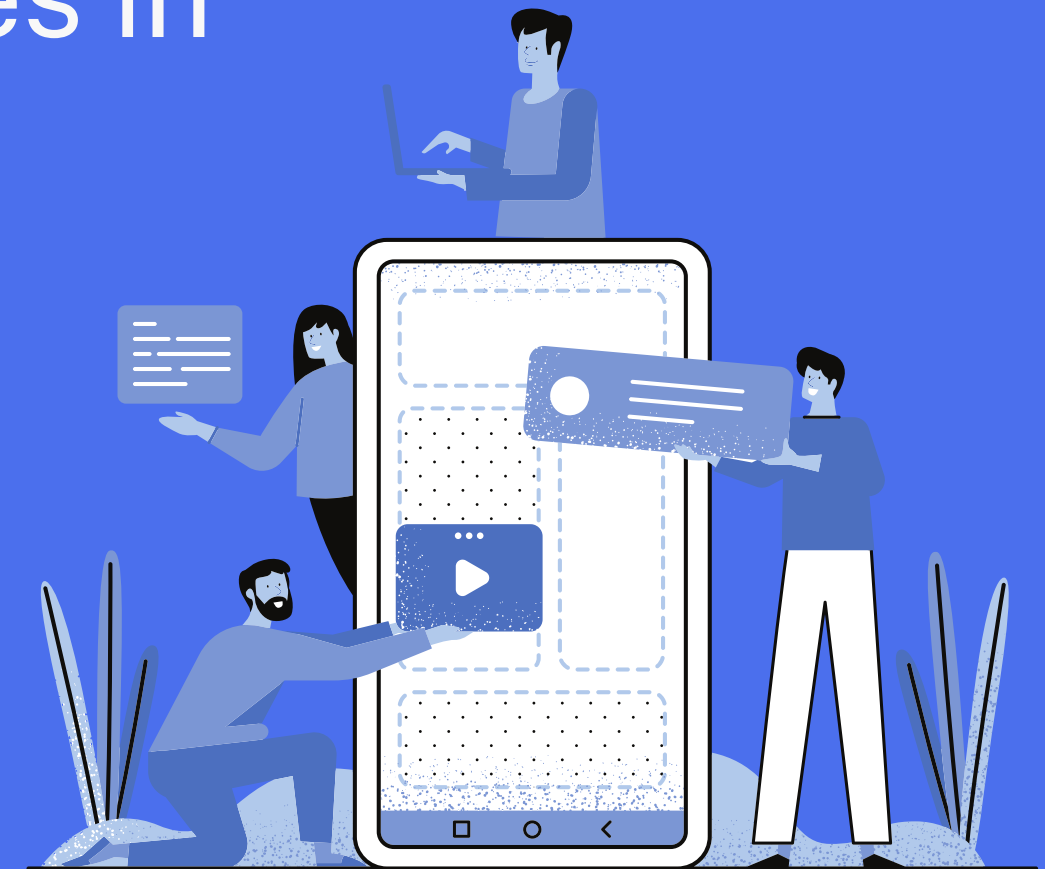
How?

Thousands of students at the University of Texas are in-state students.

Hundreds travel back home to different cities in Texas every weekend

How about an app that....

- Provides an easy to use platform for potential drivers and passengers
- Elimination of hustle to figure out the timing, prices, pick-up and drop locations



Ride Request

Departure ▾

Destination ▾

Departure Time ▾

Flexible ▾

Passenger Count ▾



Thank you for
confirming your
ride!

To make changes
please directly contact
the driver through
chat.

Cancel Ride

Tayfun is
driving to
Dallas
tomorrow!

Will you be
able to pick
me up from
PCL?

Sure, does
10am work for
you?

Yes! I can chip
in for gas and
bring snacks

Works for me.
See you
tomorrow at
10!

Transaction Management

- 1. Request to Ride**
- 2. Passenger to Driver Payment**
- 3. Company Revenue**

Entities and Attributes

Student

Personal information and ratings (both passenger and driver)

Car

Car information

Payment Info

Credit card information to pay app fees

Driver Request

Information for a driver putting in a request to get passengers

Passenger Request

Information for a passenger putting in a request to get a ride

Matched Ride

Information about the full length of the ride where driver has been matched

Passenger Match

Information on each passenger for specific matched ride

Driver Compensation

Includes driver compensation to application

Passenger

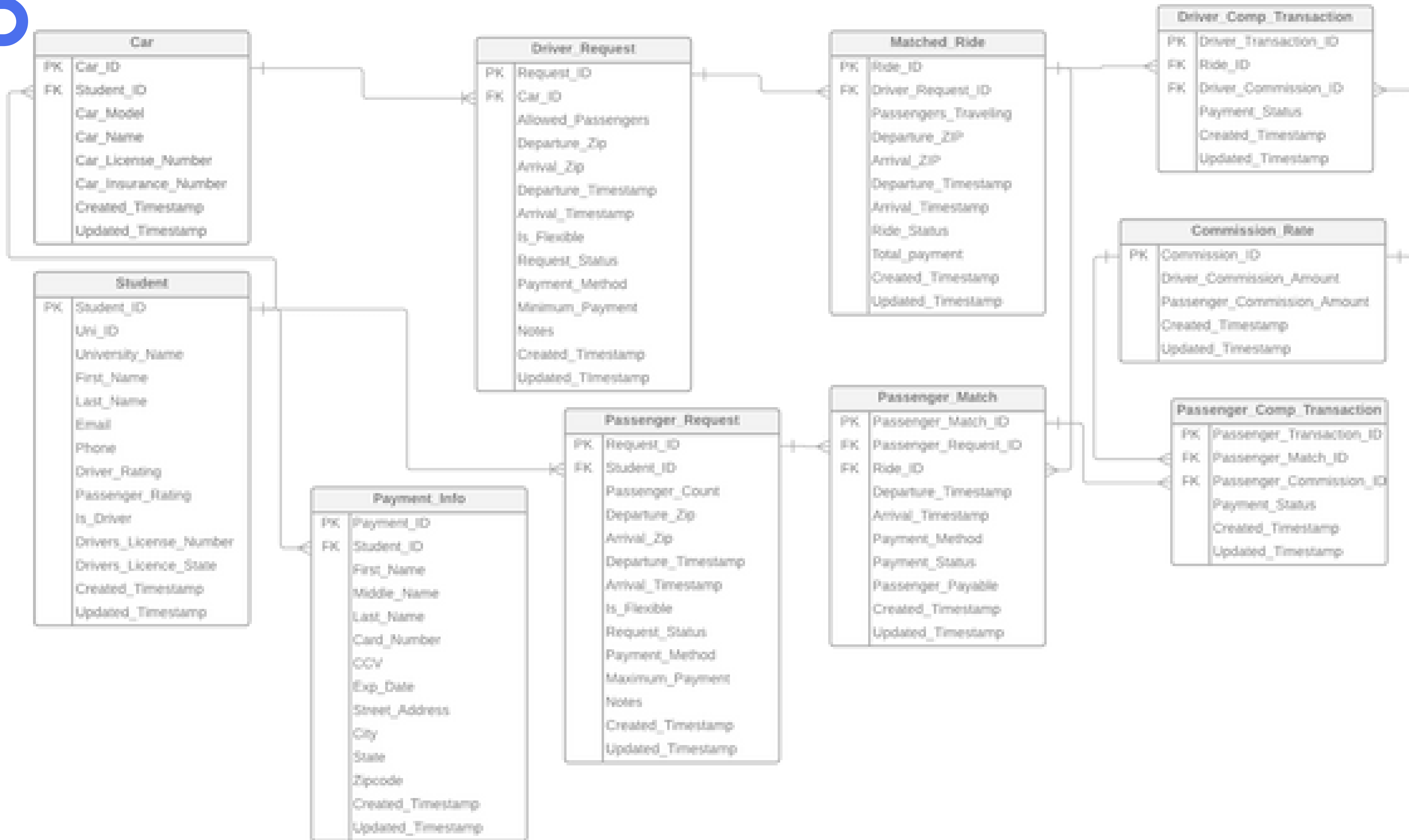
Compensation

Includes passenger compensation to application

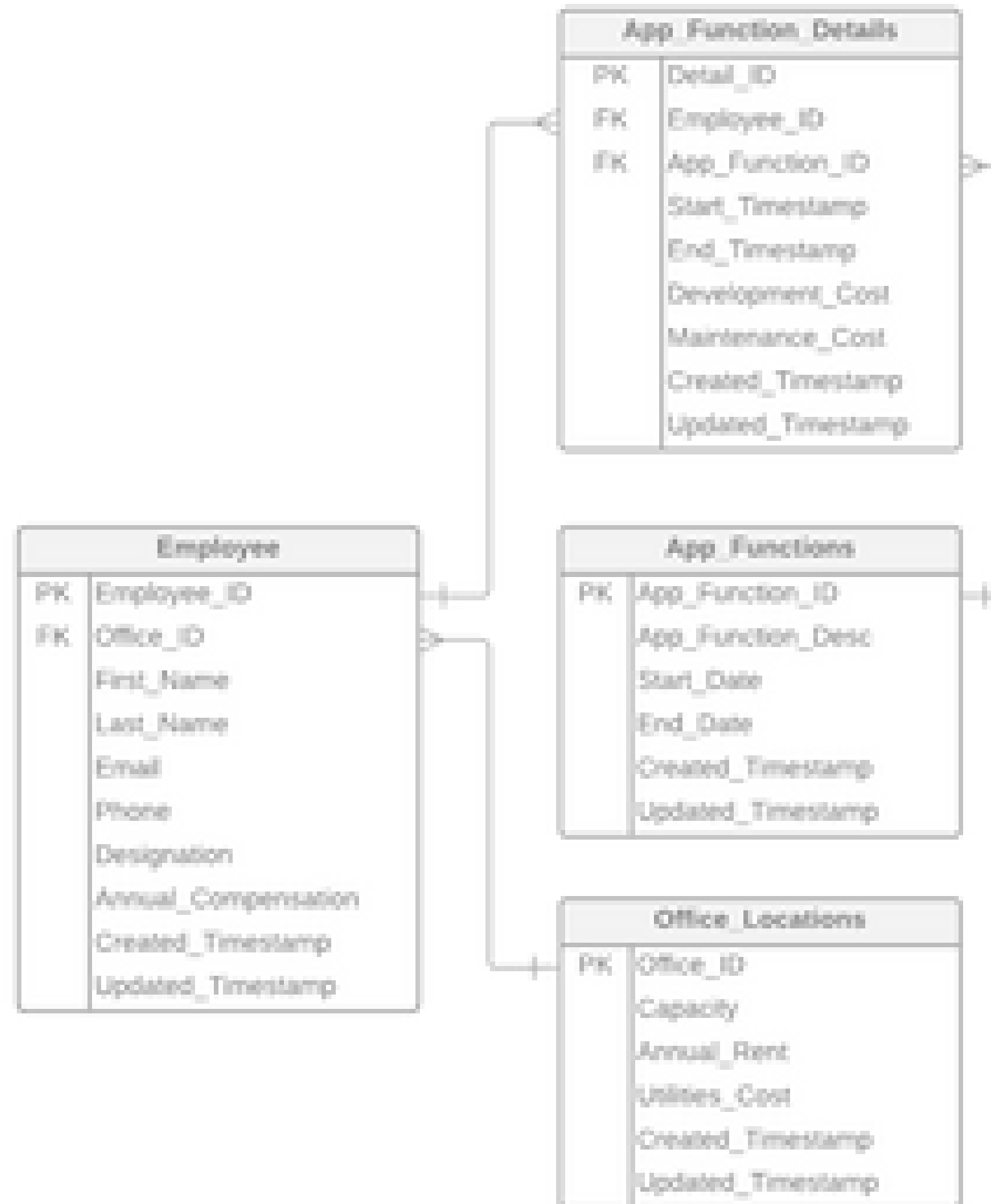
Commission Rate

Rate of commission for each driver and passenger, specific on trip

ERD



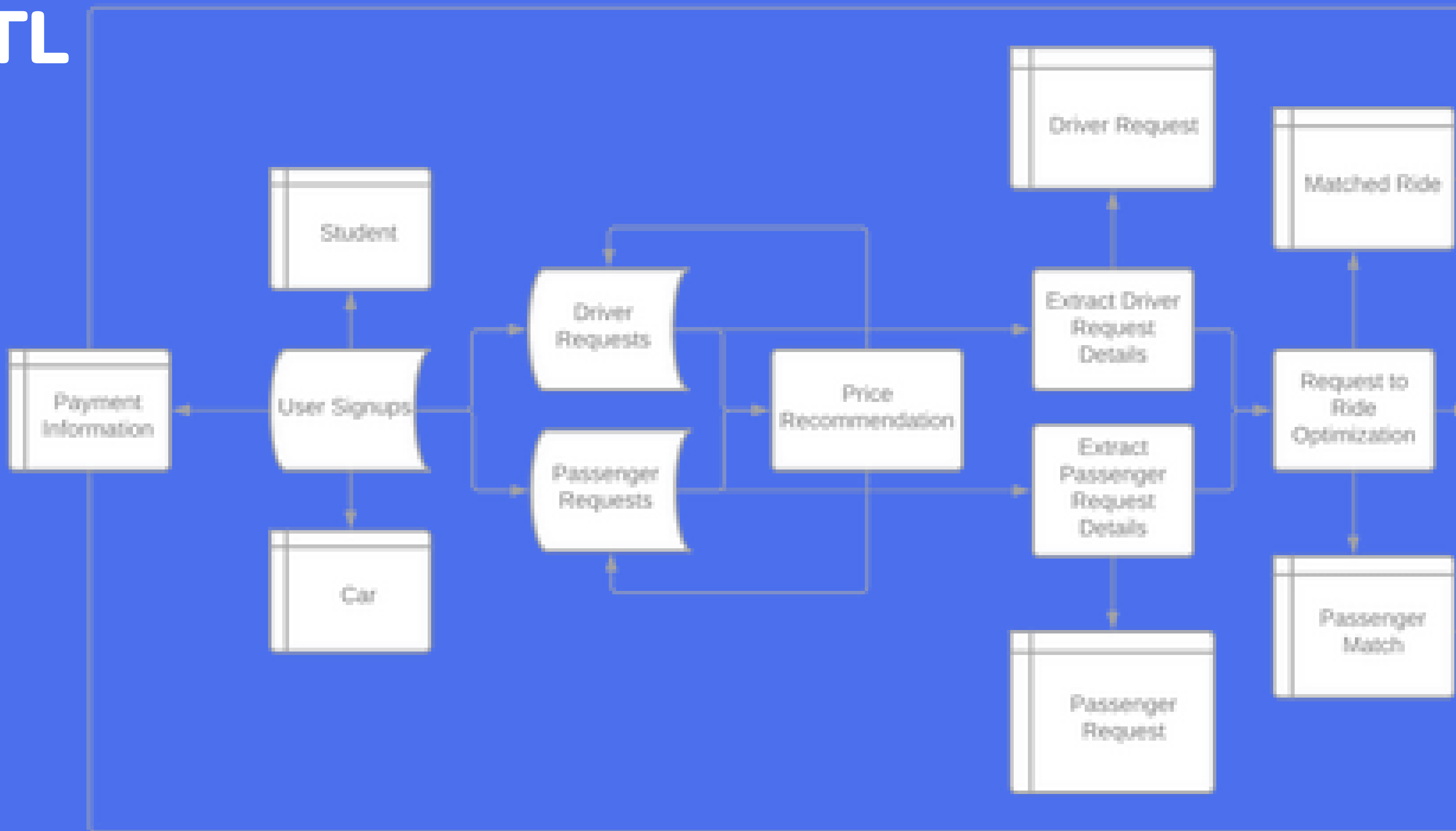
ERD Part 2

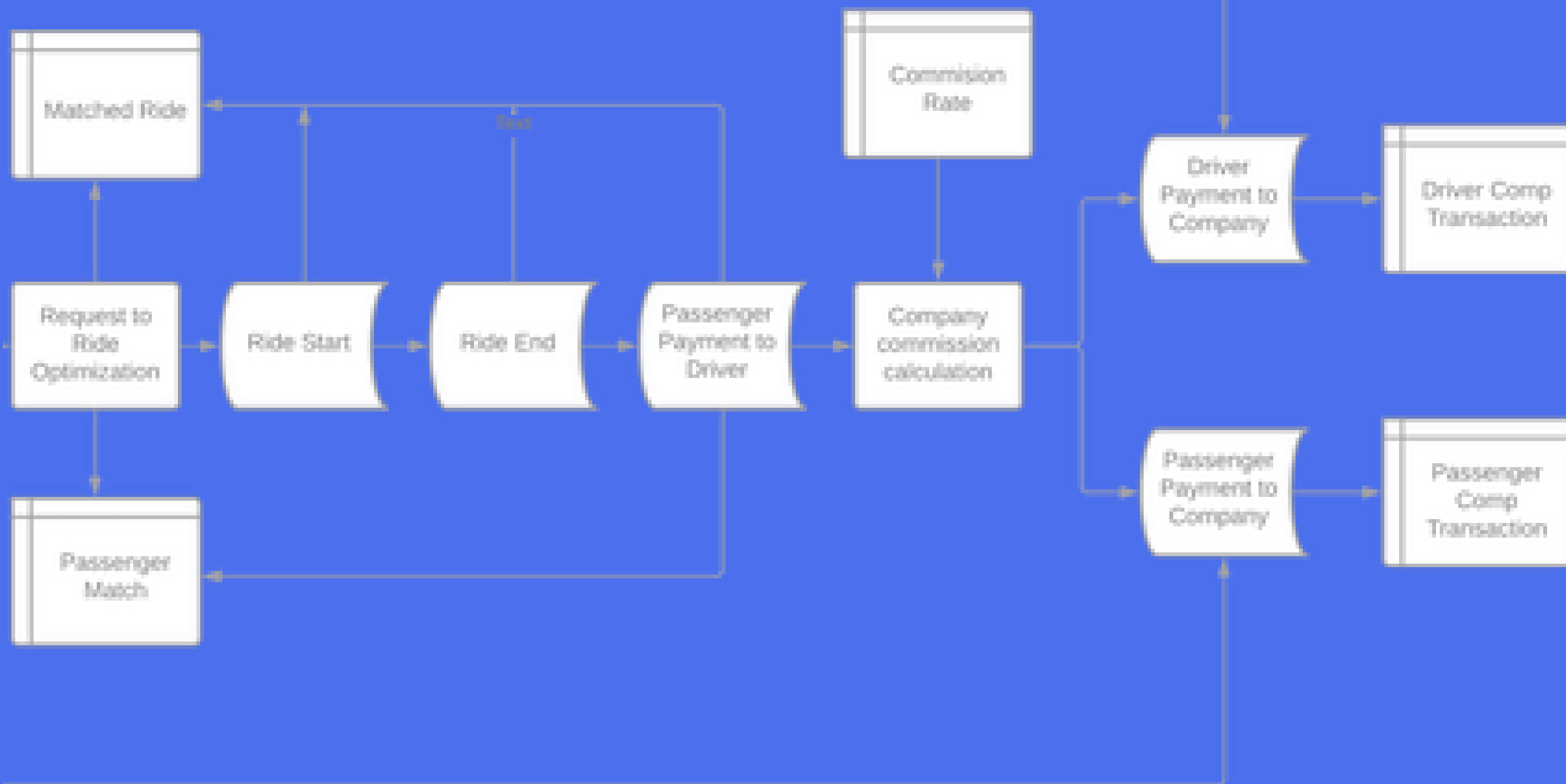


ETL Design

- User interface - signup and ride requests
- Price recommendation loop - refined passengers' charges
- Ride matching
- Commission calculation and payment to the company

ETL





Beyond the Relational

- User requests intake forms
- Chat transcripts between driver & passenger
- Gas receipts images

Beyond Database Management

- Optimization for real-time driver and passenger matching
- Text analytics on chat transcripts to identify future improvements
- Image reader for gas receipts to track payment automatically
- Time series forecasting to project company revenue

Critical Thinking (the short version)

MVP (most valuable piece learned):

multiple perspectives lead to an optimized database with varied applications

Looking forward:

allocate more resources to requirement gathering and ideation to design and deliver

What didn't make the cut:

on-update triggers, database integration with ML algorithms

Next steps:

add stored procedures, triggers; host system on cloud (eg: Azure)



AND THAT'S A WRAP!

Thank you for participating and we hope you liked our idea.
We will be on AppStore and Google PlayStore soon so keep
an eye out! (#hiring)



Questions?

