

Implement a Ride Sharing Application

Specifications

In this assignment, we are going to write the backend APIs for a ride sharing application. Please go through the following requirements for a better understanding of the problem statement,

Driver API

1. Add a Driver with vehicle assignment and permitted ride types
2. Add a Vehicle and assign permitted ride types
3. Get the driver profile with details like name, phone number, total rides, average rating etc.
4. Get complete ride history (Completed/Cancelled/Ongoing etc) with ride details like payout, distance covered, rating etc
5. Accept an open ride request
6. Update ride status for an ongoing ride
7. Update current location of driver regularly

Customer API

1. Create a ride request with details like starting & destination location and preferred ride type and return the ride info(pickup location, time to reach etc) once the request is accepted by a driver 2. Get complete ride history along with details like rating given, starting & destination location, driver info, date of journey, amount paid, payment status etc
3. Cancel a ride request before it is confirmed

Ride Matching

Your ride matching module should consider the following while matching a request to relevant drivers,

1. Distance of driver from the ride starting location
2. Preferred ride type