



**Ahsanullah University of Science and Technology (AUST)**  
Department of Computer Science and Engineering

**Project Proposal**

Course No.: CSE4126

Course Title: Distributed Database Systems Lab

**Submitted To**

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# Boober

A ride-sharing platform where users can request rides. Currently, only 2 cities are being operated on: Dhaka and Comilla.

## Features:

1. Passengers can request rides nearby
2. Passengers can view the driver's past history and profile
3. Passengers get an estimated fare for the trip

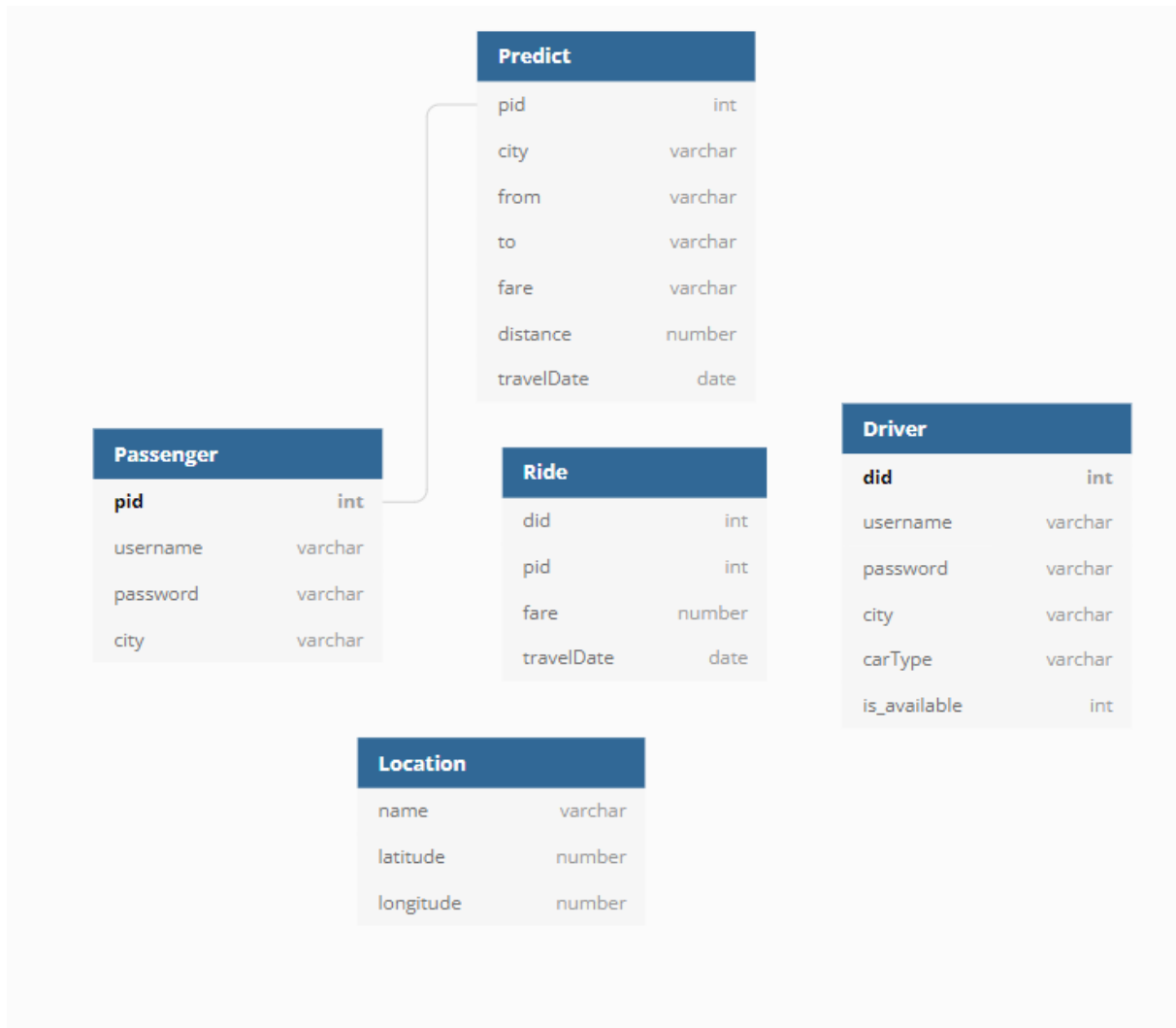
## Specifications

Oracle SQL+ will be used to create a seamless distributed database management system.

## Database Schema

The database schema can be found at the following link:

<https://dbdiagram.io/d/6161adb7940c4c4eec8d20e4>



## Need for Distributed Database

As a ride-sharing platform, there will be several cities in a country under consideration. Thousands of requests will be coming per hour from different locations in different cities. Using a centralized database will put a huge load on the server and the user queries will be slowed down.

This brings the concept of a distributed database into place. Each city will have their own local databases. Data of Passengers or Drivers registering for their particular city will be put into their local databases, along with all location information.

When a driver or a passenger travels to another city, the data will be fetched from that respective city thus reducing the load on the servers and providing efficient queries.