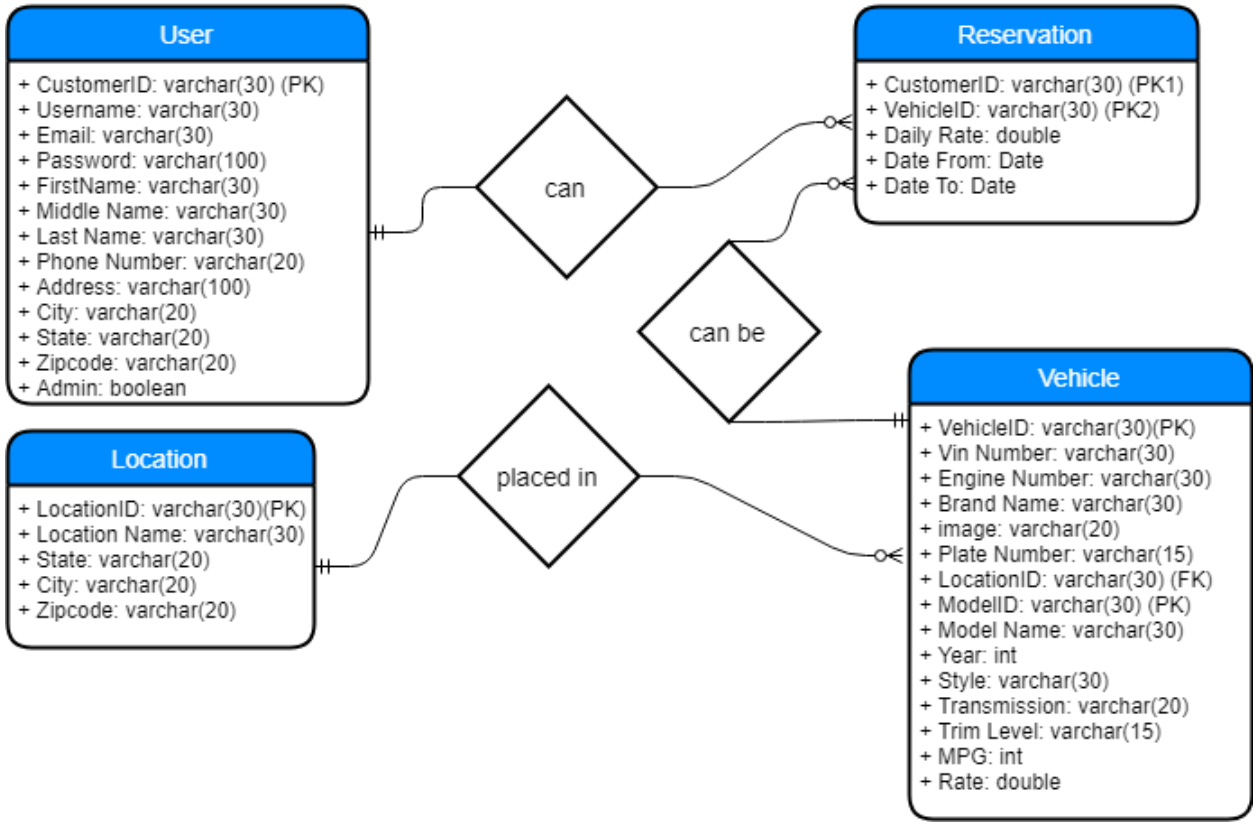
Project Requirement

1. Title of the Project: Car Reservation System
2. Users: Customers
3. Mission: To lease cars nationwide
4. Purpose: Reserve cars that are to be leased online with their pickup location
5. This application will be used to provide the service nationwide to achieve the mission
6. ER:

Car Reservation ER Diagram



7. As a user:
   - User register to the website and logs in
   - User home page showing search criterias to look for a car by Brand, Model, Year, and other criterion
   - Search result showing all cars that fulfill the criterion
   - Fills a form, date from-to, reserve and message confirmation disclosed

   As an administrator:
   - Admin logs in using username and password
   - Insert, update, and delete vehicle information
   - Insert, update and delete location information

Details of ER Diagram

Entity: Vehicle

Data Captured:

Vin Number: unique to each car
Engine Number: each car has this number
Brand Name: BMW, Toyota, Honda, etc.
Plate Number: unique to each car
Image: car picture

Entity: Vehicle Detail

Data Captured:

Model: X5,Camry, Civic, etc
Year: 2012
Style: Sedan, Van, SUV, etc
Transmission: Automatic, Manual
Trim Level: LE, SE, GLS, Limited, etc.
MPG: Mile per gallon
Rate: lease rate of each car (standard)

Entity: Location

Location Name: location where car is located
State, City, Zipcode

Entity: Reservation

Daily rate: car lease price per day (different from vehicle detail this rate a discount might be given)
Date from, Date To: dates customer needs the car

Entity: User

Username, password, email, name, phone, address: to store customer profile

Next is to do DDL with referential integrity.