

Requirements =>

Start Time:

End Time:

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Problem statement

We want to build a parking lot management application. Multiple parking lots want to use this application.

1. There are two types of vehicles: Two-Wheeler, Car

2. Each parking lot has separate capacity for each kind of vehicle.

3. There are different slab based hourly rate cards for each kind of vehicle.

Assume that

Parking lots with rates and capacities are known to the system. No apis are needed to register these.

Demonstrate the following

1. Park a Vehicle at a given parking lot (should fail if the lot is full)

2. Exit from the parking area and tell the amount due for the duration.

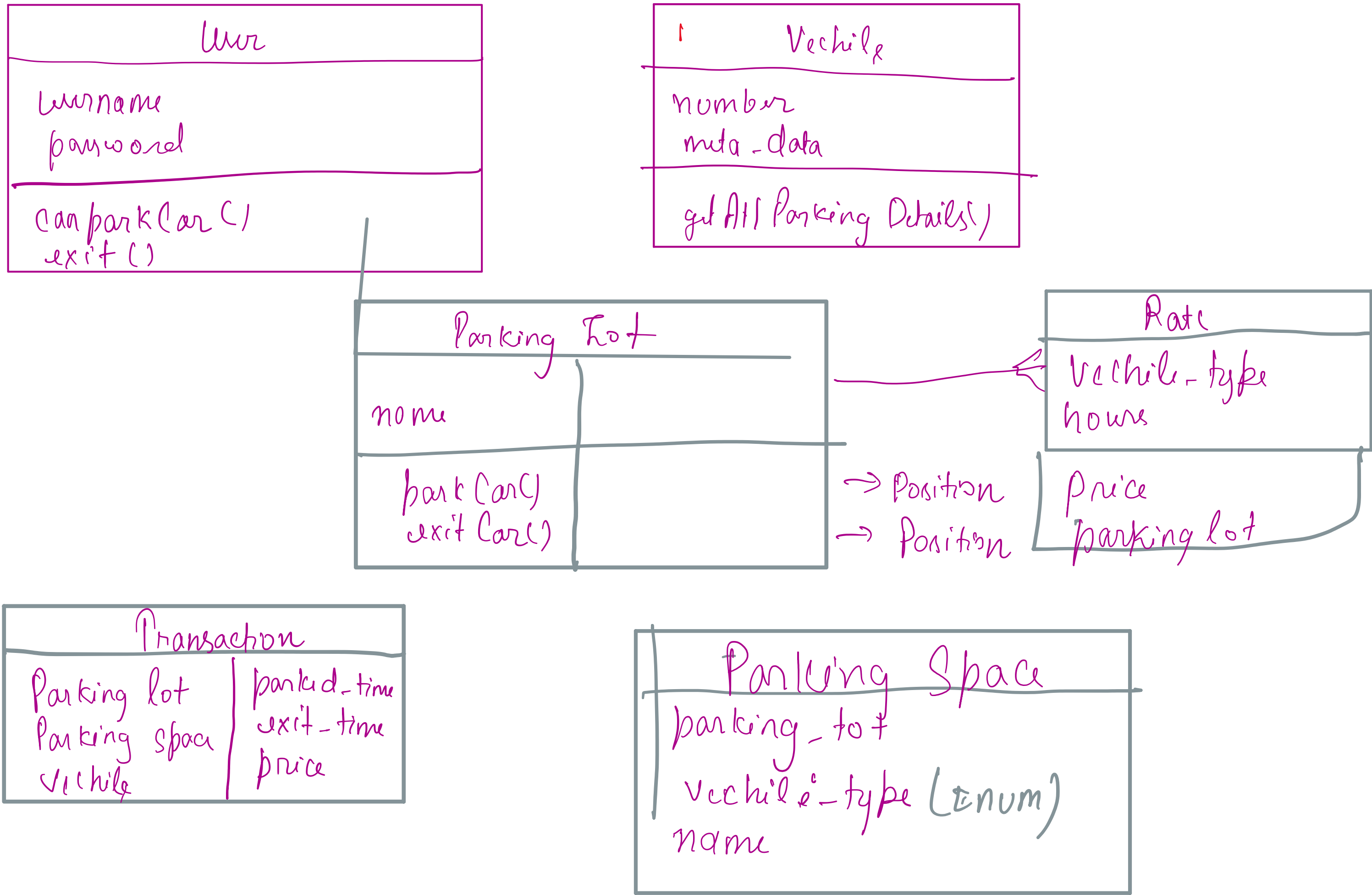
3. Given a vehicle no., see complete parking history (When, Duration, Amount Paid)

- Multiple Parking lot → API or
- Park → which parks the car
- Multiple Entry points on Exit Rates → Vehicle Type
- Multiple Car Transaction
- Get Details of Parking for vehicle Slabs
- Vehicle Type
- Time → 2 hr → X
- 4 hr → X

Entity / Entities =>

- Users (Normal User / Customer, Superuser)
- Parking Lot → Parking Space →
- Transaction
- Parking Service
- Rates
- Vehicle

Class Diagram / Models =>



API's =>

- park Car ()
- exit Car ()
- get Vehicle Details ()

Add-on

- register User
- Login
- add Parking Lot
- add Parking Space