Car Rental Systems.

Preferred Language/ runtime environment - Nodejs, python, java
Preferred Database - mysql, mongo
Hosting services - heroku, gearhost, mlab, atlas

1 - We will have a list of cars with the following mandatory details.
      carLicenseNumber(Unique true) = KA01EM7070,
      Manufacturer - honda,
      Model - city,
      base-price (Base price for any KM) - Rs500,
      PPH (Price per hour) - Rs150,
      security deposit - Rs1000

2 - We will have some users in the system who can allocate a single or many cars for any duration.
Mandatory fields.
      userId,
      Mobile,

Mandatory Features

1 - Apis to Add a user and add a car in the system.
- /user => CRUDS
- /cars => CRUDS

2 - Given a time range, figure out which cars are available for that duration.
- /search-cars
- Parameters for these apis will be toDateTime, fromDateTime.

2 - Given a time range calculate pricing for that car.
- /calculate-price
- Parameters for these apis will be toDateTime, fromDateTime, carId

4 - Given a user a return list of all the cars he has booked along with their price and durations.
- /user/bookings

5 - Given a Car return a list of users who have booked the car along with their durations.
- /car/bookings

6 - To book a car for certain durations.
- car/book

Optional Features

1 - authentication or authorization logics
2 - Creating a UI for the above Apis
3 - Providing Search-cars with different types of filters.
4 - hosting everything on the cloud services