

Problem Statement:

Consider the following description\requirement given by a Car Rental agency-
“Our company owns several Cars in various cities available for rent on daily basis. Every Car has vehicle number, model, seating capacity, rent per day etc. People make reservations/booking for these cars. Booking status of these cars includes the customer details, issue date (the date on which car is given on rent) and return date (the date on which customer returns the car back to garage) of the car.”

You have to make the following APIs –

1. Add new cars to the system, which could be used for renting.
2. Book an available car.
3. Show the details of a particular car with its availability and its currently active booking details if not available.
4. Show the cars with their availability status on a given date. This API should have the feature to filter the cars based on various fields.
5. Extend the booking of the car, if the car is not already reserved for the dates user wants to extend the booking.
6. Cancel a specific Booking.

Making DB Schema using Migrations would be a big plus.

Assignment Objective -

This assignment aims to judge your -

- Ability to write clean code and understanding of best practices.
- Understanding of web architectures.
- Understanding of Relational DataBase schemas and queries.

Submission details -

- You are expected to host the API and provide all the hosted endpoints only.
- Provide a very simple document mentioning all the above endpoints. For ease, you are advised to provide Postman API documentation or collection

for this. If you are making a document without Postman It should contain the following for every endpoint -

- Url + Method type
 - Parameters if accepts or expects.
 - Description.
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- Please provide the link of GitHub repository so that we can review the code.
 - If possible provide a link to the PHPMyAdmin portal of the application so that we can check your schema, or provide simple documentation of the DB schema. If you are documenting the schema, it should contain - All the tables, their fields with data types and constraints such as nullable, foreign key etc.