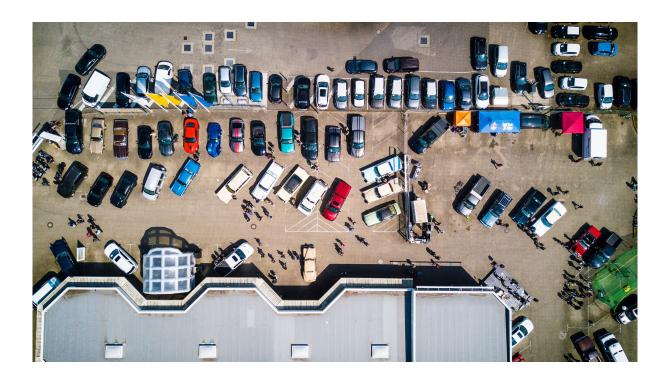## Parking Lot Project

Your task for this project is to implement a "parking lot" in PHP. You can use a framework if you prefer, but there is no need to use any frameworks - a simple application which shows the data flow is enough. The view layer is not required!

Part 1
Create an OOP implementation of a parking lot and the objects which can interact with it:
- Bus
- Car
- Motorbike

Part 2
Implement some basic interactions between the parking lot object and above objects:
- Parking the vehicle (controlling the free space)
- Departure from the parking lot

Part 3
Create a REST API with the following functionality:
- Obtain the parking lot status (a list of vehicles that are parked)
- Parking a vehicle action
- Vehicle departure from the parking lot action

We should be able to communicate with the application from any JavaScript Framework or Postman.

Part 4
Database layer (optional)

Evaluation
The project will be evaluated on the following categories:

- Application layers (model, services) and OOP (5 points).
- SOLID and Design Patterns (5 points).
- Basics of REST API implementation (5 points).
- Creativity (3 points).

Please push the repository with the implementation to GitHub or Bitbucket.

Have fun ☺