Parking Lot API Contract

Api Definitions

BaseApi: your-domain

ParkingLot

Create Parking Lot

```
base: /api/ParkingLots
verb: post
payload(body):
```

```
{
    "id": "65e72adb1a811501c45afd72",
    "capacity": 10
}
```

response:

Constraints:

Capacity should not be higher than 2000 or lower than 0 Input validations id should be a hexadecimal string ideally 24 in length

Parking

park

```
url: /api/Parkings
verb: post
```

Payload:

```
"parkingLotId": "65e72adb1a811501c45afd72",
    "registrationNumber": "MH12A1234",
    "color": "YELLOW"
}
```

Response:

Constraints:

registrationNumber should be a valid registration number

For now you can consider that each state will have a maximum of 20 districts.

The leading alphabet after the district code should only be one in length.

Total length should be 9.

```
status will be limited to PARKED and LEFT
```

parkingLotId should correspond an active parkingLot

Only the following colored cars are allowed in the parking lot

- RED
- GREEN
- BLUE
- BLACK
- WHITE
- YELLOW
- ORANGE

Leave

```
url: /api/Parkings
verb: delete
```

Response:

Payload:

Constraints:

Same constraints as create parking

Registration Number by Color

```
url: api/Parkings?color=WHITE&parkingLotId=65e72adb1a811501c45afd72
verb: get
queryParams: color parkingLotId
```

Response:

```
]
}
}
```

Constraints:

registrations array should follow natural ordering based on the db insertion

If cars of specified color (say WHITE) is not available then your api should respond with the following error:

Slot

Fetch slots by color

```
url: /api/Slots?color=BLACK&parkingLotId=65e72adb1a811501c45afd72
verb: get
queryParams: color parkingLotId
```

Response:

Constraints:

- slots should be served in increasing order by slotNumber
- If an invalid color is provided to the api to then your api should respond with

Notes

- The construct of the completer url would follow BaseApi + base for all individual apis.
- Before each round of evaluation please purge all the relevant tables to avoid data corruption. The evaluation algorithm expects a clean state for all tables.
- Renaming of fields in the contract might lead to inconsistent evaluation.
- Some of the corner cases are only mentioned in the test cases, a complete report of which you would receive after each evaluation.
- Your apis should always respond with status code 200 for any of the specified edge cases, with the response structure adhering to the following standard: