

API Design for Parking system

Parking

Method- POST

URL- /parking

Request-

```
{  
    "parkingEntityName" : "mall",  
    "parkingLotName" : "mallA",  
    "vehicleType" : "motorcycle"  
}
```

If available,

Response-

```
{  
    "ticketId" : "1001",  
    "parkingSpotId" : "101",  
    "entryTime" : "2024-03-14T12:28:06.005",  
    "message" : "vehicle is parked"  
}
```

If not available,

Response-

```
{  
    "ticketId" : "null",  
    "parkingSpotId" : "null",  
    "entryTime" : "null",  
    "message" : "Parking spot full"  
}
```

Unparking

Method- PUT

URL- /unparking

Request-

```
{  
    "ticketId" : "1001"  
}
```

If valid,

Response-

```
{  
    "ticketId" : "1001",  
    "entryTime" : "2024-03-14T12:28:06.005",  
    "exitTime" : "2024-03-14T03:30:09.005",  
    "amount" : "120.00"  
}
```

If invalid,

Response-

```
{  
    "ticketId" : "null",  
    "entryTime" : "null",  
    "exitTime" : "null",  
    "message" : "ticketID not found"  
}
```