

Parking Lot System Documentation

How to Get Started:

- Download the Github repo: https://github.com/shushill/ParkingLot_System in your local drive.
- Navigate to the downloaded folder through your terminal or you may open this project in the IntelliJ IDE.
- If you are using the IntelliJ IDE simply run the Project and the new shell will be created in the terminal of IntelliJ IDE.
- Or, If you opening through the terminal, Please navigate to the the directory where the pom.xml lies and run the command: **./mvnw spring-boot:run**. As I am using Maven as a build tool.
- As after running the above the command, the interactive shell will be run. (If there is any error, it might be due to lack of maven software. Please install maven and JDK file in the local drive.)
- Please note I tried to build the project to create the Jar file and it was taking long time to build so I skipped this process.
- I have used here h2 database. In the resources folder, you may change the application.properties file to choose the database according to your convenience. For example, if you want to connect Postgres, uncomment all the lines related to Postgres and comment all the lines for h2. In the posters, please create mydb database and respective username and password.
- If the interactive shell is created and it is visible, you may try different commands to explore the system. It is the same commands as the assignment document.

```
$ create_parking_lot 6
```

```
Created a parking lot with 6 slots
```

```
$ park KA-01-HH-1234 White
```

```
Allocated slot number: 1
```

```
$ park KA-01-HH-9999 White
```

```
Allocated slot number: 2
```

\$ park KA-01-BB-0001 Black

Allocated slot number: 3

\$ park KA-01-HH-7777 Red

Allocated slot number: 4

\$ park KA-01-HH-2701 Blue

Allocated slot number: 5

\$ park KA-01-HH-3141 Black

Allocated slot number: 6

\$ leave 4

Slot number 4 is free

\$ status

Slot No. Registration No Colour

1 KA-01-HH-1234 White

2 KA-01-HH-9999 White

3 KA-01-BB-0001 Black

5 KA-01-HH-2701 Blue

6 KA-01-HH-3141 Black

\$ park KA-01-P-333 White

Allocated slot number: 4

\$ park DL-12-AA-9999 White

Sorry, parking lot is full

\$ registration_numbers_for_cars_with_colour White KA-01-HH-1234, KA-01-HH-9999, KA-01-P-333

\$ exit

- If you want to explore through the Postman tool, you may also explore the different api through the browser by going through the url: <http://localhost:8081/swagger-ui/index.html>

- It will have all the different api as mentioned.
- I have attached the Postman pic also for the reference and it is in the GitHub repo.

Thanks for reading