



BOOKPARKING

DONE BY BENNY LEE

[HTTPS://GITHUB.COM/BENNYLEEJT/GOLIVE](https://github.com/bennyleejt/golive)



WHY BOOKPARKING

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- Always competing with others to get a parking spot
 - Long waiting time to search during peak hours
 - For every driver

TIMELINE

Week 1
Ideation and
Trial & Error



Week 2 & 3
Development,
Testing
& Debugging

INTENDED FEATURES

View

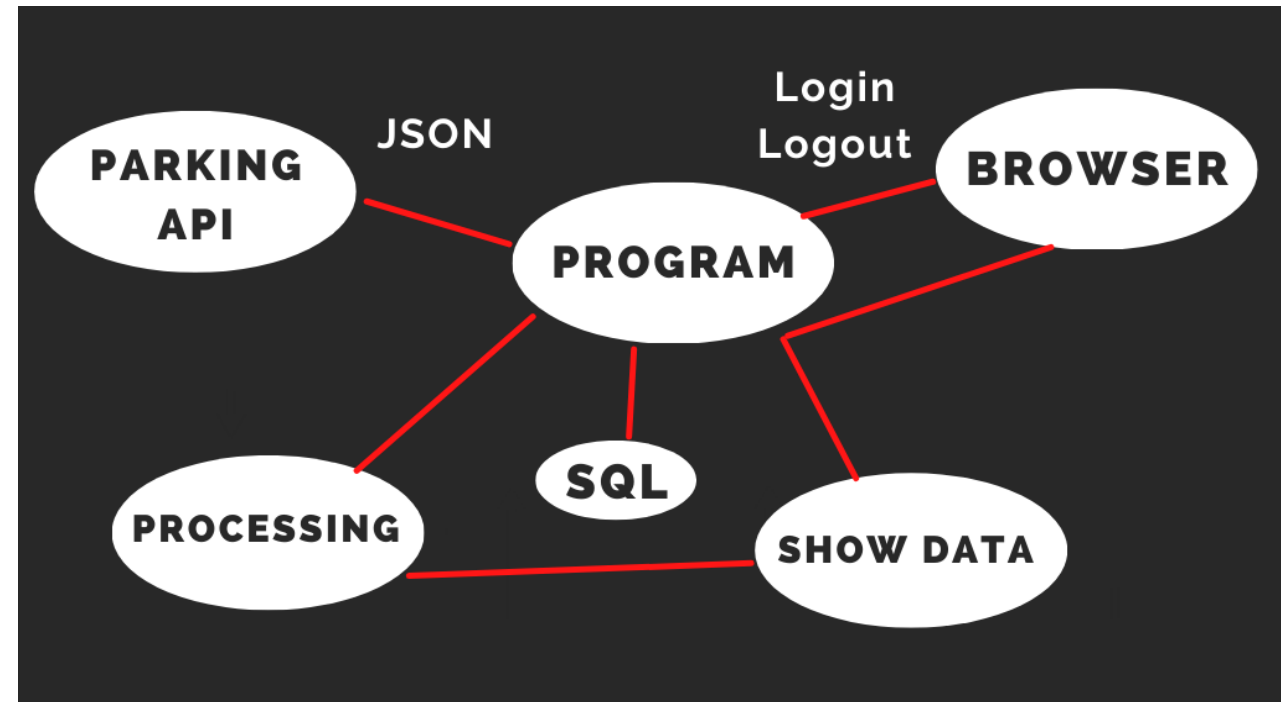
View all parking space availability at current moment

Book

Book desired parking space

Store

Store bookings to your user account



SEEN IN CONSOLE

Carpark Data extracted from API as JSON

```
[{"CarparkInfo": [{"TotalLots": 130, "LotType": "C", "LotsAvailable": 130}], "CarparkNumber": "BA4", "UpdateDatetime": "2021-05-14T23:14:05"}, {"CarparkInfo": [{"TotalLots": 123, "LotType": "C", "LotsAvailable": 123}], "CarparkNumber": "JS1L", "UpdateDatetime": "2021-05-14T23:32:12"}, {"CarparkInfo": [{"TotalLots": 10, "LotType": "C", "LotsAvailable": 1}], "CarparkNumber": "A26", "UpdateDatetime": "2021-05-14T23:12:31"}, {"CarparkInfo": [{"TotalLots": 333, "LotType": "C", "LotsAvailable": 137}], "CarparkNumber": "B65M", "UpdateDatetime": "2021-05-14T23:31:14"}, {"CarparkInfo": [{"TotalLots": 623, "LotType": "C", "LotsAvailable": 611}], "CarparkNumber": "B65L", "UpdateDatetime": "2021-05-14T23:31:14"}, {"CarparkInfo": [{"TotalLots": 3, "LotType": "C", "LotsAvailable": 2}], "CarparkNumber": "BE3", "UpdateDatetime": "2021-05-14T23:14:51"}, {"CarparkInfo": [{"TotalLots": 306, "LotType": "C", "LotsAvailable": 53}], "CarparkNumber": "BE3R", "UpdateDatetime": "2021-05-14T23:14:51"}, {"CarparkInfo": [{"TotalLots": 195, "LotType": "C", "LotsAvailable": 110}], "CarparkNumber": "B8B", "UpdateDatetime": "2021-05-14T23:29:59"}, {"CarparkInfo": [{"TotalLots": 500, "LotType": "C", "LotsAvailable": 499}], "CarparkNumber": "B8B", "UpdateDatetime": "2021-05-14T23:29:59"}]
```

This API call will run each time link is clicked to <http://127.0.0.1:3300/carparkInfo>

SEEN IN CONSOLE

CarparkNumber Data with the Address, extracted from csv file as put in a slice of Map intended to map with carpark data in previous slide

```
map[address:BLKS 462A, 462B YISHUN AVENUE 6 car_park_no:Y77L]  
map[address:BLK 461 YISHUN AVENUE 6 car_park_no:Y77M]  
map[address:BLK 468 YISHUN ST 43 car_park_no:Y78M]  
map[address:BLK 731/746 YISHUN STREET 71,72/AVENUE 5 car_park_no:Y8]  
map[address:BLK 478 YISHUN ST 42 car_park_no:Y82M]  
map[address:BLK 747/752 YISHUN STREET 72 car_park_no:Y9]
```

This API call will run each time link is clicked to <http://127.0.0.1:3300/carparkAddress>

TECHNOLOGIES USED

- Go programming
- Satori UUID
- bcrypt
- JSON encoding
- Go templates

LIMITATIONS, IMPROVEMENTS, WISH LIST

- - Validations
- - Security
- - Storing in MySQL
- - Favourite Parking Places
- - Having a map to show the locations would be useful



THANK YOU FOR YOUR TIME

