

## #Overview

This is an overview of the project [\_\_Project\_\_](https://github.com/sssury/ObjectOrientedDesign/tree/master/Project).

\_\_For this project:\_\_

- I choose, Gradle, Java 8, Visual Studio Code, And SpringBoot

- Reasons:

1. Gradle for the wrapper easy deployment on TA's testing environment
2. Java 8 for the standard OOP style, and my familiarity
3. VSC for the light weight, and less IDE magics
4. SpringBoot for the light weight, and Tomcat inclusion

\_Haomin Shi\_ @ Nov 18th, 2018 Final Project

```bash

haominshi@Haomins-MacBook-Pro:~/GitRepo/ObjectOrientedDesign/Project\$ tree src  
src

```
|— main
|   |— java
|   |   |— App.java
|   |   |— AppContract.java
|   |   |— AppPresenter.java
|   |   |— jsonUtil
|   |       |— NoteToJsonConvertor.java
|   |       |— NoteValidator.java
|   |       |— OrderToJsonConvertor.java
|   |       |— OrderValidator.java
|   |       |— ParkToJsonConvertor.java
|   |       |— ParkValidator.java
|   |       |— ResponseJsonParser.java
|   |       |— VisitorModelToJsonConvertor.java
|   |   |— model
|   |       |— noteModel
|   |           |— NoteEntry.java
|   |           |— NoteModel.java
|   |       |— orderModel
|   |           |— OrderModel.java
|   |       |— parkModel
|   |           |— LocationInfoModel.java
|   |           |— ParkModel.java
|   |           |— PaymentInfoModel.java
|   |       |— vehicleModel
|   |           |— VehicleModel.java
|   |           |— VehicleTypeInfoModel.java
|   |       |— visitorModel
|   |           |— VisitorModel.java
|   |   |— park
|   |       |— Park.java
|   |       |— ParkContract.java
|   |   |— responseCode
|   |       |— BadRequestResponseCode.java
|   |       |— CreatedResponseCode.java
|   |       |— NotFoundResponseCode.java
```

```

├─── OkResponseCode.java
├─── ResponseCodeContract.java
├─── StatusCodes.java
├─── search
│   ├─── NoteSearch.java
│   ├─── OrderSearch.java
│   ├─── ParkSearch.java
│   └─── VisitorSearch.java
├─── storage
│   ├─── Storage.java
│   ├─── StorageContract.java
│   └─── StorageEntity.java
├─── util
│   ├─── ArrayFormatter.java
│   ├─── DateHelper.java
│   ├─── IdGenerator.java
│   ├─── NumberFormatter.java
│   └─── PriceCalculator.java
├─── resources
│   └─── application.properties
├─── test
│   ├─── java
│   │   ├─── AppPresenterTest.java
│   │   ├─── AppTest.java
│   │   ├─── ArrayFormatterTest.java
│   │   ├─── IdGeneratorTest.java
│   │   ├─── LocationInfoModelTest.java
│   │   ├─── NoteToJsonConvertorTest.java
│   │   ├─── NumberFormatterTest.java
│   │   ├─── ParkModelTest.java
│   │   ├─── ParkTest.java
│   │   ├─── ParkValidatorTest.java
│   │   └─── PaymentInfoModelTest.java
│   └─── mockData
│       └─── createPark1.json

```

18 directories, 53 files

...

### ### Build the project:

- Build // do it at the project root dir i.e `~~~/project/.``

```
__ bash
```

```
haominshi@Haomins-MacBook-Pro:~/GitRepo/ObjectOrientedDesign/Project$ ./gradlew clean build
```

— — —

- Run // do it at the project root dir i.e ``~/project/``

```
```bash
```

```
haominshi@Haomins-MacBook-Pro:~/GitRepo/ObjectOrientedDesign/Project$ ./gradlew run
```

— — —

- \_\_The Project will be running at base url\_\_ -- ``http://localhost:8080/parkpay/``

- Example -- ``http://localhost:8080/parkpay/hello-world``

— — — — —

### #### Tasks Checks

\_\_PARKS\_\_

- [x] Create park ( POST /parks )
- [x] Update park [pid] ( PUT /parks/[pid] )
- [x] Delete park [pid] ( DELETE /parks/[pid] )
- [x] View all parks ( GET /parks )
- [x] View park detail ( GET /parks/[pid] )
- [x] Search parks ( GET /parks?key=keyword )
- [x] View all notes associated with park [pid] ( GET /parks/[pid]/notes )
- [x] View note associated with park [pid] ( GET /parks/[pid]/notes/[nid] )
- [x] Create note and associate it with park [pid] ( POST /parks/[pid]/notes )

\_\_NOTES\_\_

- [x] View all notes ( GET /notes )
- [x] View note identified by [nid] ( GET /notes/[nid] ).
- [x] Update note [nid] ( PUT /notes/[nid] )
- [x] Search notes ( GET /notes?key=keyword )

\_\_ORDERS\_\_

- [x] Create order ( POST /orders )
- [x] View all orders ( GET /orders )
- [x] View order [oid] ( GET /orders/[oid] )
- [x] Search orders ( GET /orders?key=keyword )

\_\_VISITORS\_\_

- [x] View all visitors ( GET /visitors )
- [x] View visitor [vid] ( GET /visitors/[vid] )
- [x] Search visitors ( GET /visitors?key=keyword )

\_\_REPORTS\_\_

- [ ] Get list of available reports ( GET /reports )
- [ ] Get report identified by [rid] ( GET /reports/[rid]{?start\_date=YYYYMMDD&end\_date=YYYYMMDD} )

\_\_SEARCH\_\_

- [ ] Search ( GET /search?key=keyword{&start\_date=YYYYMMDD&end\_date=YYYYMMDD} )

## ### All Tasks

- You can view all available gradle tasks via

```
```bash
```

```
haominshi@Haomin-MacBook-Pro:~/GitRepo/ObjectOrientedDesign/Project$ ./gradlew tasks
```

```
```
```

## ### Stats

- Total Lines of Code sourceCode vs Compiled: ..

```
```
```

Start counting...

Counting took 283 ms. The result is:

```
total: 11,971
code: 10,961
comment: 266
blank: 744
```

Start counting...

Counting took 1807 ms. The result is:

```
total: 647,585
code: 642,613
comment: 267
blank: 4,705
```

```

- Lines in unittests:

```bash

haominshi@Haomins-MacBook-Pro:~/GitRepo/ObjectOrientedDesign/Project\$ ./gradlew jacocoTestReport

```

Then you can view the report under the gradle build dir under the report folder.

- For Code complexity:

```bash

haominshi@Haomins-MacBook-Pro:~/GitRepo/ObjectOrientedDesign/Project\$ ./gradlew  
cloverGenerateReport

```

Then you can view the code complexity report at the build dir under the report, and then clover dir.

### Challenges:

Complete this project under 2 weeks is a challenge... I should've started the project earlier