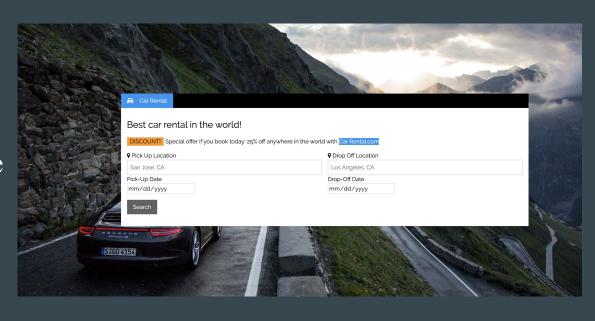# Car Rental System

● ● ●
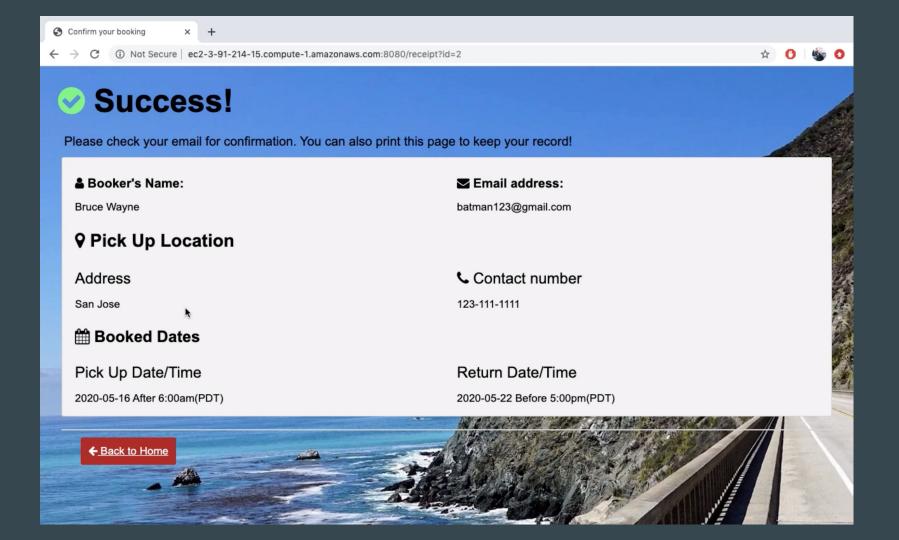
CMPE 172 - Enterprise Software
Team 5: Dylan Zhang, En-Ping Shih, Tsz Hin Chan

Project Overview

- Car Rental System to run queries to track statistics and recurrence of check out cars.

- Users are able to pick the location and date they want to rent/return the car.

- Users are able to track their rental history.

Present by Dylan Zhang

✓ Success!

Please check your email for confirmation. You can also print this page to keep your record!

👤 Booker's Name:

Bruce Wayne

✉ Email address:

batman123@gmail.com

📍 Pick Up Location

Address

San Jose

📞 Contact number

123-111-1111

📅 Booked Dates

Pick Up Date/Time

2020-05-16 After 6:00am(PDT)

Return Date/Time

2020-05-22 Before 5:00pm(PDT)

← Back to Home

Project Description

The car rental platform has become an exciting startup option and has a place in the world. Users who want to rent a car can search for the car according to their needs and rent the car after providing the necessary details and payment. The goal of our project is that the process of registering a "car rental" takes only a few seconds. The user only needs to fill in personal information and select a car(s) to fulfil the entire process.

Present by Dylan Zhang

Components used

- HTML (Thymeleaf), CSS, JavaScript (UI)

- Java - Spring boot

- AWS - EC2

- AWS RDS - MySQL
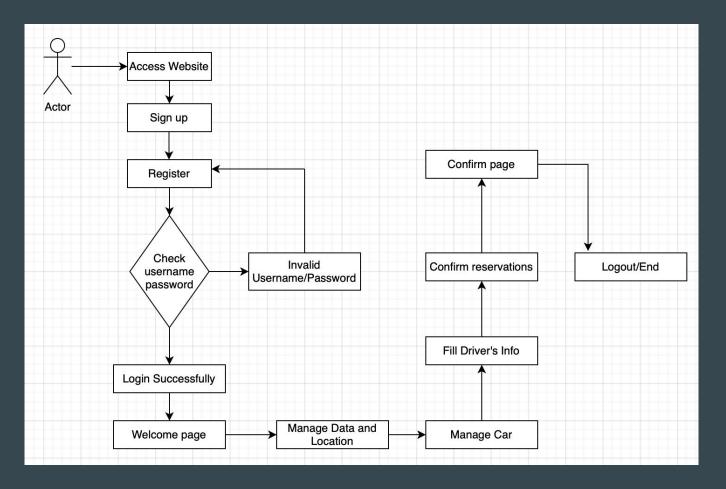
- Docker
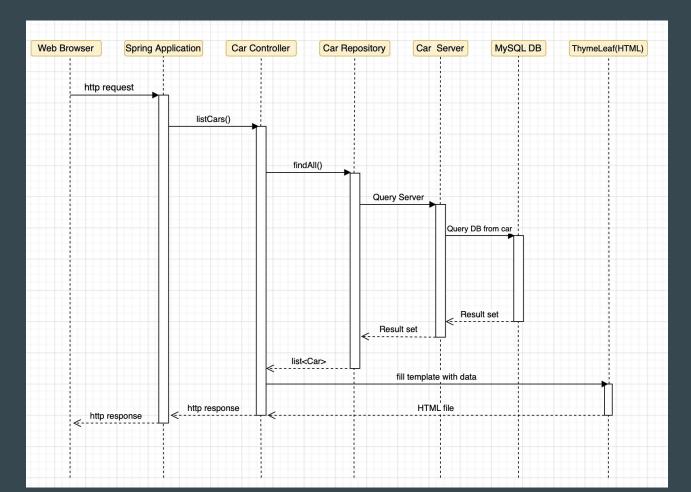
Present by Dylan Zhang

System Diagram: Car Rental Diagram Template
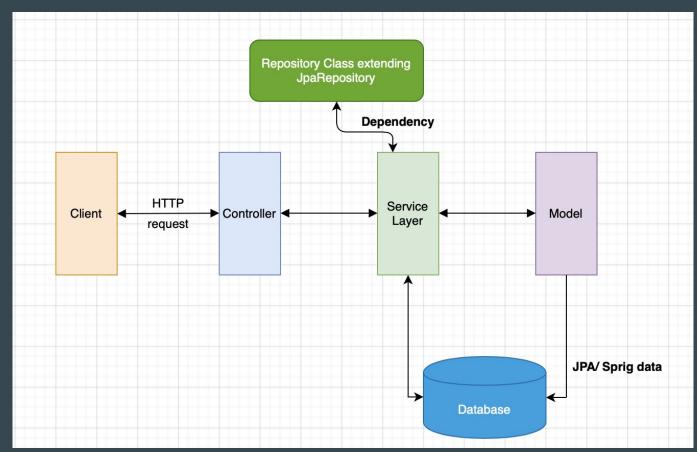
Present by Dylan Zhang

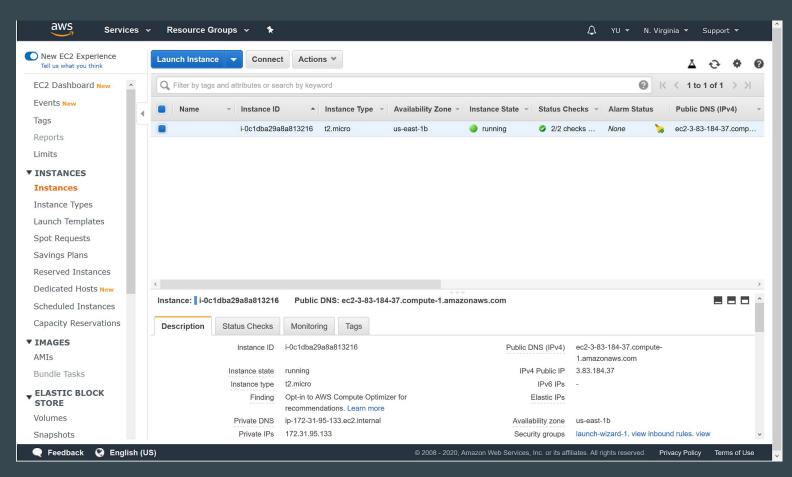# Sequence Diagram: Car Rental Processing Request Template(UML)
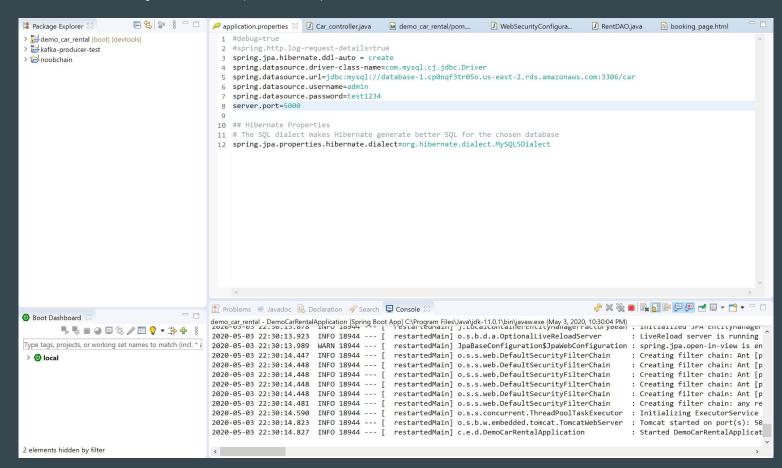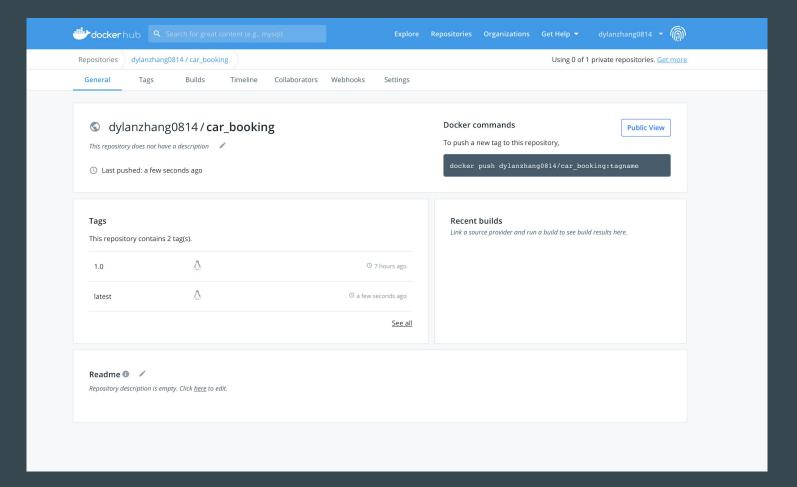

Present by
Dylan
Zhang

Spring Boot Structure

Present by Tsz Hin Chan

AWS - EC2

Present by Tsz Hin Chan

RDS - MySQL (AWS)

Present by Tsz Hin Chan

Docker


```
containerd version: ff48f57fc83a8c44cf4ad5d672424a98ba37ded6
runc version: dc9208a3303feef5b3839f4323d9beb36df0a9dd
init version: fec3683
Security Options:
 seccomp
  Profile: default
Kernel Version: 4.14.173-137.229.amzn2.x86_64
Operating System: Amazon Linux 2
OSType: linux
Architecture: x86_64
CPUs: 1
Total Memory: 983.4MiB
Name: ip-172-31-95-133.ec2.internal
ID: 6DGS:DNB6:73QM:OECJ:JHS2:NN7R:TWDN:C7UP:DRM7:REJS:YBGZ:4KQ6
Docker Root Dir: /var/lib/docker
Debug Mode: false
Registry: https://index.docker.io/v1/
Labels:
Experimental: false
Insecure Registries:
 127.0.0.0/8
Live Restore Enabled: false

[[ec2-user@ip-172-31-95-133 ~]$ build -t cmpe172/carbooking
-bash: build: command not found
[[ec2-user@ip-172-31-95-133 ~]$ ls
demo_car_rental  java-11-amazon-corretto-devel-11.0.4.11-1.x86_64.rpm
[[ec2-user@ip-172-31-95-133 ~]$ cd demo_car_rental
[[ec2-user@ip-172-31-95-133 demo_car_rental]$ docker build -t cmpe172/carbooking
"docker build" requires exactly 1 argument.
See 'docker build --help'.

Usage:  docker build [OPTIONS] PATH | URL | -

Build an image from a Dockerfile
[[ec2-user@ip-172-31-95-133 demo_car_rental]$ sudo docker build -t carbooking:1.0 .
Sending build context to Docker daemon  44.82MB
Error response from daemon: Dockerfile parse error line 1: FROM requires either one or three arguments
[[ec2-user@ip-172-31-95-133 demo_car_rental]$ sudo docker build -t carbooking:1.0 .
Sending build context to Docker daemon  44.82MB
Step 1/3 : FROM amazoncorretto:11
11: Pulling from library/amazoncorretto
a3f8e652bdc4: Pull complete
d195fe3929b2: Pull complete
Digest: sha256:23b3da2fac66d1802226298da373a6c5d1560a621309c7dd2c72a7e26686190f
Status: Downloaded newer image for amazoncorretto:11
 ---> dcce9e8293ec
Step 2/3 : COPY target/demo_car_rental-0.0.1-SNAPSHOT.jar app.jar
 ---> 70e5baa0ae0e
Step 3/3 : ENTRYPOINT ["java","-jar","/app.jar"]
 ---> Running in 758f0da33909
Removing intermediate container 758f0da33909
 ---> 95397471ac87
Successfully built 95397471ac87
Successfully tagged carbooking:1.0
[[ec2-user@ip-172-31-95-133 demo_car_rental]$ docker run -d -p 8080:8080 -t carbooking:1.0
6b0546e5f773e483afd693800e3237489875ce31574969169aa78a7ae60b52cf
[[ec2-user@ip-172-31-95-133 demo_car_rental]$
```

Present by
Tsz Hin
Chan

Docker pull "dylanzhang0814/car_booking:1.4"

Frontend - HTML

Present by En-Ping Shih

Live Demo!

http://ec2-3-91-214-15.compute-1.amazonaws.com:8080/welcome

P.S. The Link is now **disabled** since we want to avoid any extra charges by the AWS.
But it was running when we did the live demo in class. (5/4/2020)

Present by En-Ping Shih

Next Step

- Enable registration via social media accounts for quick registration.
- Forget/Reset password
- Profile page
- Add more cars
- Search by title Function
- Add customer service message box
- Debugging

Lessons Learned

- Spring boot
- AWS RDS
- AWS Cloud9
- Amazon Simple Storage Service (S3)
- RESTful Web Services
- Docker

Present by En-Ping Shih

Individual Contribution

- Frontend, UI Design

  - En-Ping Shih

- Backend, Environment Setup, Server, Database

  - Dylan Zhang

  - Tsz Hin Chan

Present by En-Ping Shih

Thank You!

Any questions?