Deployment Document

Requirements:

Java development Kit (JDK): version-> 17

```
Command Prompt

Microsoft Windows [Version 10.0.18363.1854]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\hamid>java -version
java version "17" 2021-09-14 LTS
Java(TM) SE Runtime Environment (build 17+35-LTS-2724)
Java HotSpot(TM) 64-Bit Server VM (build 17+35-LTS-2724, mixed mode, sharing)

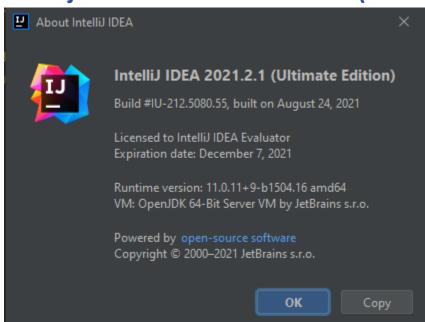
C:\Users\hamid>
```

MySQL Data Base: version -> MySQL Server 5.7

You can find database name, user name and password in this picture:

```
# Database settings
spring.datasource.url=jdbc:mysql://localhost:3306/InsuranceDB
spring.datasource.username=root
spring.datasource.password=1234
```

Intellij IDEA: version -> 2021.2.1(Ultimate Edition)



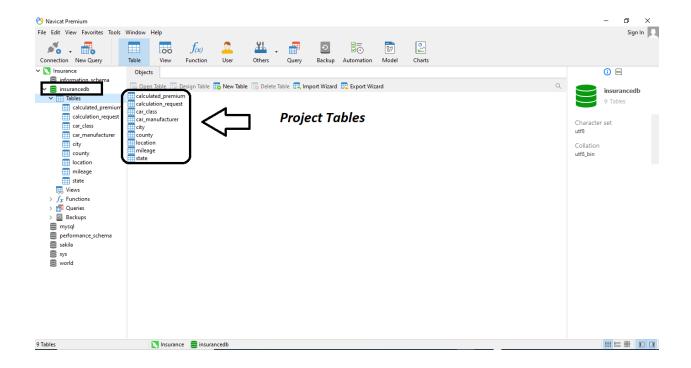
Modules Run Priority

- 1- Discover Service
- 2- MileagePolicy RegionPolicy CarPolicy
- 3- Calculation
- 4- Getway



DATA BASE

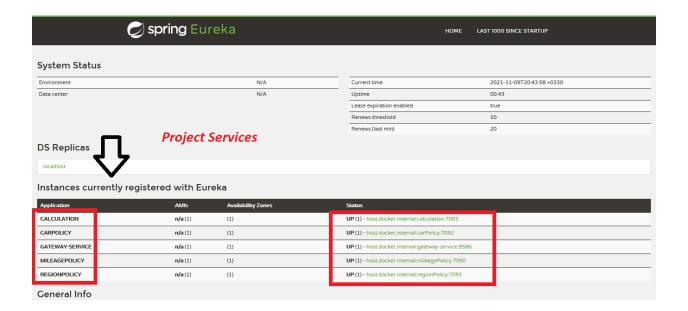
After running projects you can see created tables in MYSQL Database.



Netflix Eureka Panel

You can access service status in this URL:

Eureka Panel URL: http://localhost:8761



After running Project, you can test with Postman

According Database initialization you can use this data for test this API:

Postal Code: 555 or 666 or 777 or 888

Mileage Distance Between: 0 - 1000000 (KM)

localhost:8586/carPolicy/getAllCarManufacturer

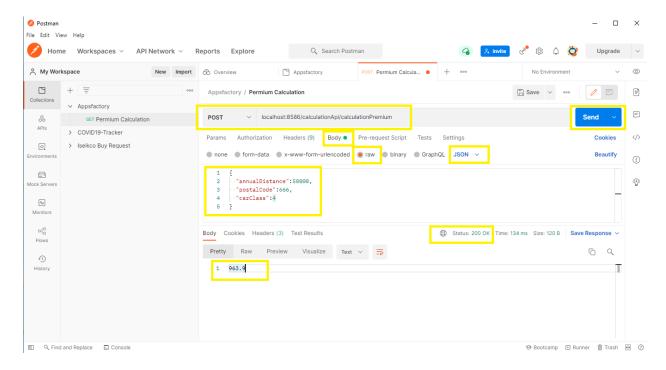
Car Class: between: 1-6

localhost:8586/calculationApi/calculationPremium
localhost:8586/carApi/getAllCarManufacturer

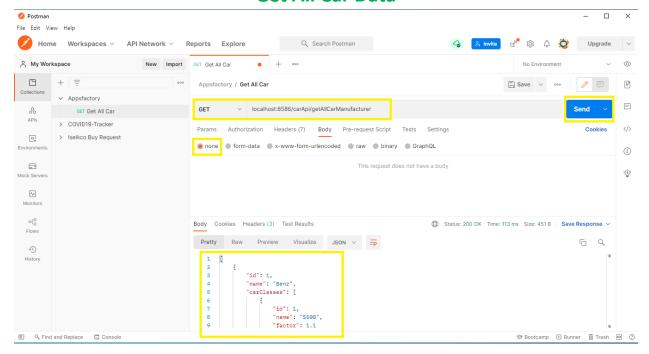
localhost:8586/calculation/calculationPremium

for Local Usage

Calculate Premium



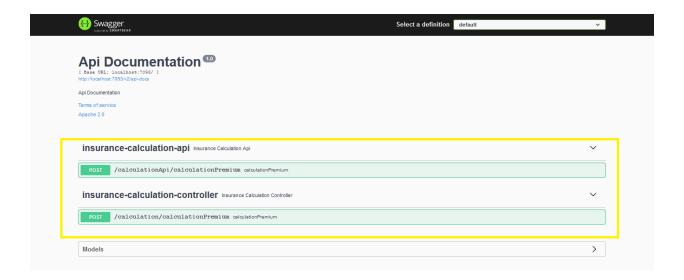
Get All Car Data



Swagger UI

You can Access Swagger UI panel in this URL:

http://localhost:7093/swagger-ui/index.html



How to improve this Project quality?

I recommend:

- Using OAuth 2.0 and JWT for Third Party Authentication
- Using Aspect Oriented Programming(AOP) and Cross-Cutting Concern thinking for Logging any API, Controller, Service calling
- Using advance Filter on Gate Way for checking Request and improving Security
- Using Spring Cloud Circuit Breaker for handling Microservice failing
- Using Docker File for creating Image and container and running Project on Docker platform and use Kubernetes for Microservices management