

Restaurant seat booking system.

Technology stack :

- Spring boot
- h2
- Eureka service registry

Required software's

JDK 1.8+

Maven

How to install and run :

- Extract Reservations zip folder to your local
- Modify application.properties located in \Reservations\Table-catalog\src\main\resources to add location of datastore
spring.datasource.url=jdbc:h2:[file:C:/Users/<username>](#)/test
- in each corresponding folder run below commands
mvn clean install
- navigate to each target folder and run
java -jar EurekaServer-0.0.1-SNAPSHOT.jar
and
java -jar Table-catalog-0.0.1-SNAPSHOT.jar

sample curl scripts

request available restaurants by date :

curl -X GET \

```
'http://localhost:8098/v1/restaurants/availability?date=30%2F03%2F2020%3A10%3A35' \
-H 'cache-control: no-cache' \
-H 'content-type: application/json' \
-H 'postman-token: 48f26fe8-5fb8-7541-1c0a-2660762a3cbf'
```

sample response

```
[
  {
    "availableSeats": 3,
    "id": 1
  },
  {
    "availableSeats": 4,
    "id": 2
  },
  {
    "availableSeats": 10,
    "id": 3
  },
  {
    "availableSeats": 2,
    "id": 4
  }
]
```

request reserve seat for date and time

```
curl -X POST \
  http://localhost:8098/v1/restaurants/reserve \
  -H 'cache-control: no-cache' \
  -H 'content-type: application/json' \
  -H 'postman-token: 9b4ee259-5a44-b516-68f3-507ec40a9ee9' \
  -d '{
    "firstName": "test",
    "reservedBy": "testReserved",
    "email": "test@gmail.com",
    "phone": "12345678",
    "reservedDdate" : "30/03/2020:10:35",
```

```
        "id":1
    }'
```

sample response :

```
{
  "reservationId": 2,
  "firstName": "test",
  "reservedBy": "testReserved",
  "email": "test@gmail.com",
  "phone": "12345678",
  "id": 1,
  "reservedDdate": "30/03/2020:10:35",
  "tableEntity": null
}
```

Assumptions

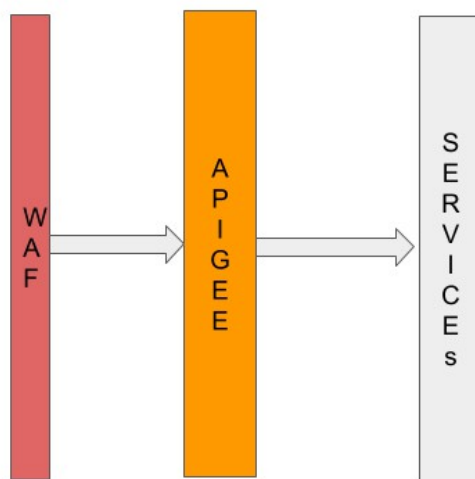
Error handling/validation are not implemented

following files are attached along with document

- swagger specification
- Reservations zip folder

System architecture can be :

Web application firewall



possible Further improvements

- validations and error handling can be done in APIGEE layer
- separate products and app for mobile/internet reservation system
- separate quata for each system
- Security implementation in both north and south bound