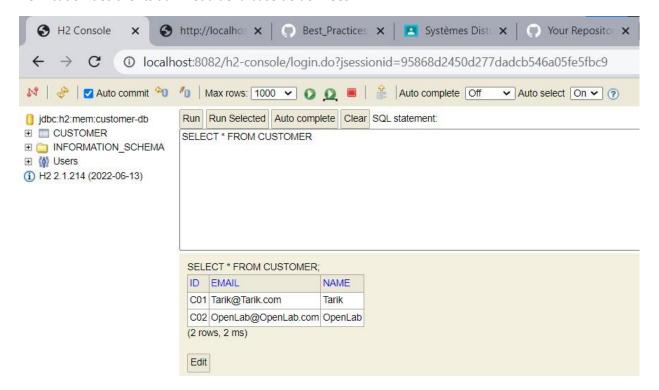




# Pour le Micro-Service « CUSTOMER-SERVICE »

La création de deux Customers

Vérification des clients au niveau de la base de données



### Affichage des clients

Grace au DTOs on peut ignorer l'attribut email dans la partie UI

```
CustomerRespanseDTO.java × Customer.java × CustomerRequestDTO.java ×

package enset.ma.apmicroservices.dto;

import lombok.AllArgsConstructor;

import lombok.Data;

import lombok.NoArgsConstructor;

ausages

Quata QNoArgsConstructor QAllArgsConstructor

public class CustomerRespanseDTO {

private String id;

private String name;

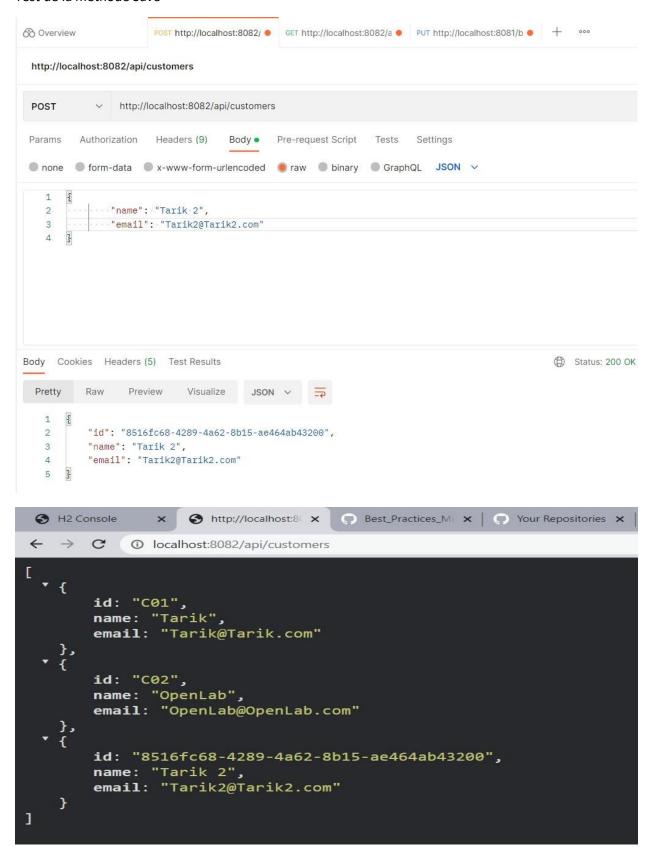
// private String email;

// private String email;
```

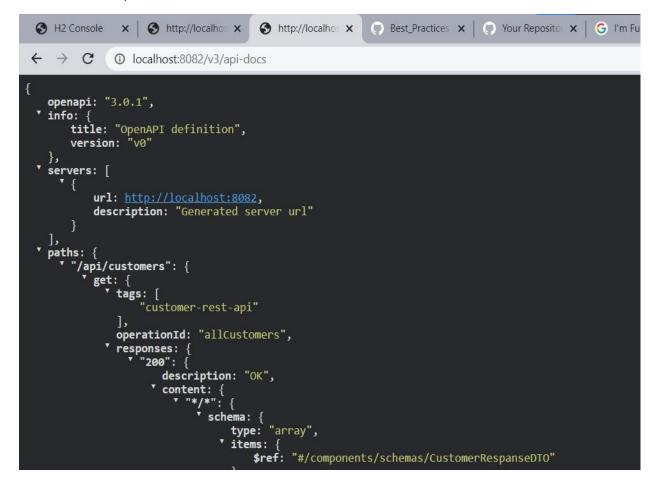


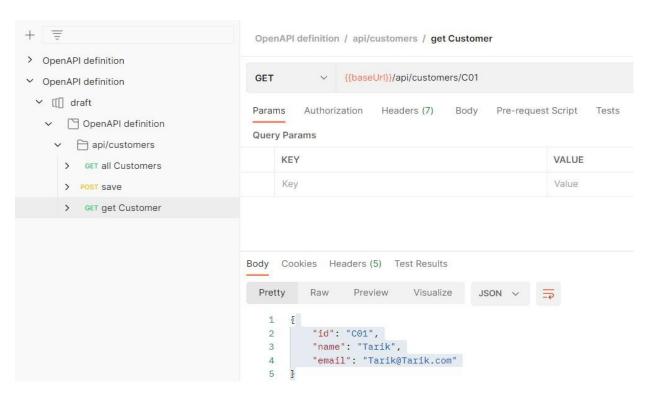
## Consulter un client par ID

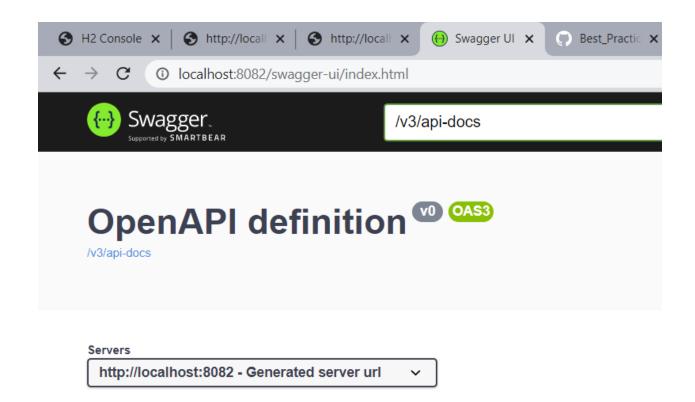
#### Test de la méthode Save



#### **Documentation Api**



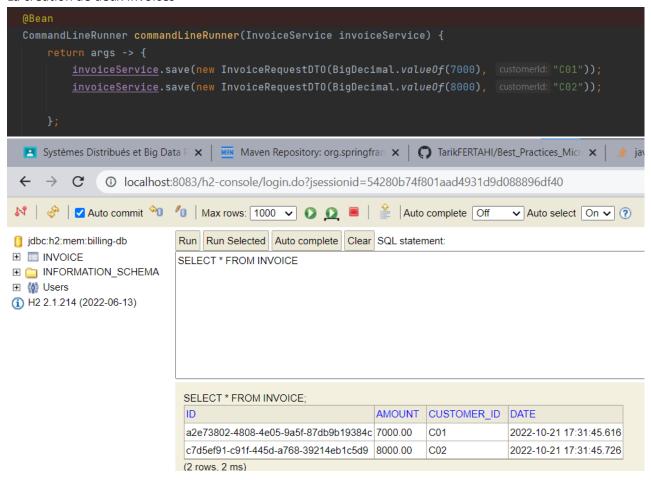






# Pour le Micro-Service « BILLING-SERVICE »

#### La création de deux Invoices

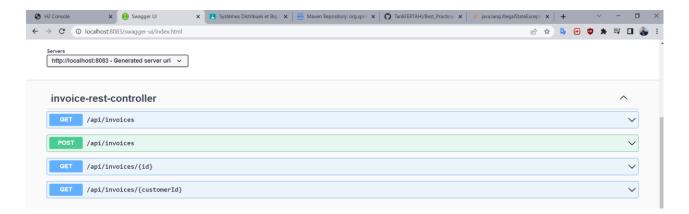






① localhost:8083/v3/api-docs

```
openapi: "3.0.1",
'info: {
     title: "OpenAPI definition",
     version: "v0"
 servers: [
         url: http://localhost:8083,
         description: "Generated server url"
 ],
 paths: {
   "/api/invoices": {
         get: {
           ▼ tags: [
                 "invoice-rest-controller"
             operationId: "getAllInvoices",
           responses: {
               ' "200": {
                    description: "OK",
                  ▼ content: {
                      * "*/*": {
                           schema: {
                              type: "array",
'items: {
                                   $ref: "#/components/schemas/InvoiceResponseDTO"
         },
         post: {
            tags: [
                "invoice-rest-controller"
             operationId: "save",
            requestBody: {
                content: {
                  "application/json": {
                        schema: {
                            $ref: "#/components/schemas/InvoiceRequestDTO"
```



### Méthode Get

## Méthode Save



## Récupérer toutes les factures

```
http://localhost:80 x
                    Eureka
H2 Console
          localhost:8083/api/invoices/
     id: "85903699-68cb-48a2-a848-0edd35ddb000",
     date: "2022-10-22T01:29:01.010+00:00",
     amount: 7000.00,
   customer: {
         id: "C01",
         name: "Tarik",
         email: "Tarik@Tarik.com"
, },
▼ {
     id: "7463b59b-f018-410a-a4f6-afba2d4daa9d",
     date: "2022-10-22T01:29:01.124+00:00",
     amount: 8000.00,
     customer: {
         id: "C02",
         name: "OpenLab",
         email: "OpenLab@OpenLab.com"
```

Récupérer une facture par Id

Récupérer toutes les factures associe a un client

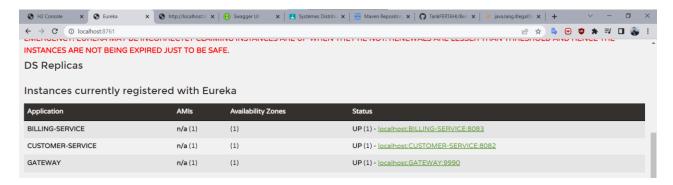
## Pour le Micro-Service « EUREKA-SERVICE »

```
@SpringBootApplication
@EnableEurekaServer
public class EurekaServiceApplication {
      public static void main(String[] args) {
           SpringApplication.run(EurekaServiceApplication.class, args);
                                    🕝 EurekaServiceApplication.java 🗵
                                                                             application.properties
         server.port=8761
         eureka.client.fetch-registry=false
         eureka.client.register-with-eureka=false
  H2 Console
                             Eureka
                                                       (H) Swagger UI
                                                                                  Systèmes Distribués e X
          G
                 ① localhost:8761
                       spring Eureka
 System Status
  Environment
                                                                      test
                                                                      default
  Data center
🗴 📔 Systèmes Distribués e 🗴 🔚 Maven Repository; or 🗴 🖟 🎧 TarikFERTAHI/Best_Pro 🗴 📗 java.lang.lllegalStateE 🗴 📗
← → C ① localhost:8761
                                                                                      🕑 🖈 📭 😉 🛊 🗊 🔲 备
                                                       Renews threshold
                                                       Renews (last min)
EMERGENCY! FUREKA MAY BE INCORRECTLY CLAIMING INSTANCES ARE UP WHEN THEY'RE NOT. RENEWALS ARE LESSER THAN THRESHOLD AND HENCE THE
INSTANCES ARE NOT BEING EXPIRED JUST TO BE SAFE.
DS Replicas
Instances currently registered with Eureka
                          AMIs
                                   Availability Zones
Application
                                                         Status
BILLING-SERVICE
                                                         UP (1) - localhost:BILLING-SERVICE:8083
                          n/a (1)
                                   (1)
CUSTOMER-SERVICE
                          n/a (1)
                                                         UP (1) - localhost:CUSTOMER-SERVICE:8082
```

## Pour le Micro-Service « GATEWAY »

```
<dependency>
    <groupId>org.springframework.cloud</groupId>
    <artifactId>spring-cloud-starter-gateway</artifactId>
    </dependency>

<dependency>
    <groupId>org.springframework.cloud</groupId>
    <artifactId>spring-cloud-starter-netflix-eureka-client</artifactId>
    </dependency>
```



Récupérer la liste des clients en passant par Gateway

Récupérer un client par id en passant par Gateway

#### Méthode Post

```
http://localhost:9990/CUSTOMER-SERVICE/api/customers/
 POST
          Authorization
                         Headers (10)
                                                 Pre-request Script
                                                                            Settings
 Params
                                        Body •
                                                                    Tests
 none form-data x-www-form-urlencoded raw binary GraphQL
                                                                               JSON V
         "name": "gateway",
         "email": "gateway@gateway.com"
    3
    4
      Cookies Headers (3) Test Results
Body
  Pretty
            Raw
                    Preview
                               Visualize
                                            JSON
    1
    2
            "id": "d900d1d2-0ba5-428b-a854-c8812f2feb91",
            "name": "gateway",
    3
            "email": "gateway@gateway.com"
    4
    5
                        Eureka
                                              http://localhost:99 x
                                                                    (H) Swagger UI
  H2 Console
               ① localhost:9990/CUSTOMER-SERVICE/api/customers
        id: "C01",
        name: "Tarik",
        email: "Tarik@Tarik.com"
        id: "C02",
        name: "OpenLab",
        email: "OpenLab@OpenLab.com"
        id: "d900d1d2-0ba5-428b-a854-c8812f2feb91",
        name: "gateway",
email: "gateway@gateway.com"
```

Récupérer la liste des factures en passant par Gateway

```
♦ http://localhost:95 x
  H2 Console
                        Eureka
                                                                ( Swao
             ① localhost:9990/BILLING-SERVICE/api/invoices
     id: "2da72b52-d899-452d-8ad9-ce67ecf13760",
     date: "2022-10-22T02:39:19.146+00:00",
     amount: 7000.00,
     customer: {
         id: "C01",
         name: "Tarik",
         email: "Tarik@Tarik.com"
, },
, {
     id: "115688d8-7815-403f-b89c-df97944b6588",
     date: "2022-10-22T02:39:19.241+00:00",
     amount: 8000.00,
     customer: {
         id: "C02",
         name: "OpenLab",
         email: "OpenLab@OpenLab.com"
```

Récupérer une facture par id en passant par Gateway