**Challenge**: SkipTheDishes - Skip the Dishes

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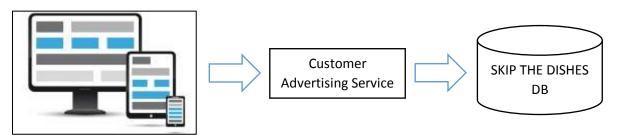
## Introduction

I created a micro service that can be used for mobile and desktop clients in order to get customer information.

Advertising apps can invoke these APIs to find potential customers based on zip code or geo position, and send them promotions or other advertising goals. For instance, a restaurant would like to see all customers placed in a specific zip code where people don't order food very often in order to offer them a discount. Or, a new restaurant want to know who leaves in the neighborhood and offer a promotional price in its opening week.

#### <u>Architecture</u>

### **Adverting Apps**



#### **Examples**

## 1: Using zip code

#### Example 2: Using geo position

### Database

#### MYSQL 8

To create the database, table and insert the sample data, please do the following:

- 1. Login in MYSQL
- 2. Type "create database skipthedishes"

```
mysql: [Warning] C:\Program Files\MySQL\MySQL Server 8.0\bin\mysql.exe: ignoring option '--no-beep' due to invalid value ''
Enter password:
Welcome to the MySQL monitor. Commands end with; or \g.
Your MySQL connection id is 57
Server version: 8.0.11 MySQL Community Server - GPL

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> create database skipthedishes;
Query OK, 1 row affected (0.80 sec)

mysql>
```

3. The application will create the tables automatically on start. You can check that in console:

```
England & Number Declarate Consol | Con
```

4. Run the *populateCustomer.sql* located in the dbfiles folder into the project. This script will create the customer table and load customer sample data:

To run the script, type

"source D:\SPEDROZA\Pessoal\workspace\skipthedishes\dbfiles\populateCustomer.sql"

Replace "D:\SPEDROZA\Pessoal\workspace\skipthedishes\dbfiles\" according to your machine.

```
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql>
mysql> use skipthedishes;
Database changed
mysql> source D:\SPEDROZA\Pessoal\workspace\skipthedishes\dbfiles\populateCustomer.sql
Query OK, 0 rows affected (2.27 sec)
Query OK, 100 rows affected (0.35 sec)
Records: 100 Duplicates: 0 Warnings: 0
Query OK, 0 rows affected (0.00 sec)
```

To check inserted data, just type "select \* from customer":

# **Application**

I used JAVA8 to compile my application, Spring MVC, Hibernate and JUNIT.

So, you will find some J8 features, for instance:

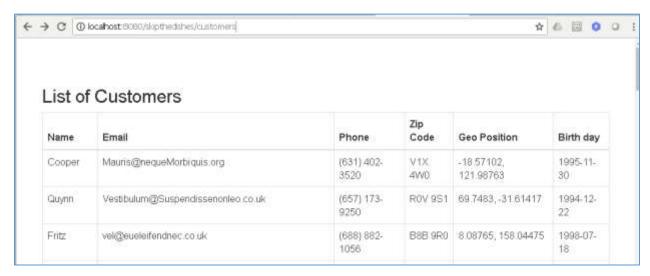
#### New java date api LocalDate

```
15 @Entity
16 public class Customer {
17
18⊜
       @Id
19
       @GeneratedValue(strategy=GenerationType.IDENTITY)
20
       private int id;
21
22
       private String name;
23
       private String email;
24
       private String phone;
25
       private String zipCode;
26
       private String geoPosition;
27
28⊜
       @DateTimeFormat
29
       private LocalDate birthday;
30
31⊜
       public int getId() {
32
           return id;
33
```

#### Streams and lambda

I also used **internal resolvers** to return the requested response format. So, the requester can use the same URL to get html or json. Also, the developer doesn't have to maintain two different methods. It makes the application easy to maintain. Example testing both returns in a browser:

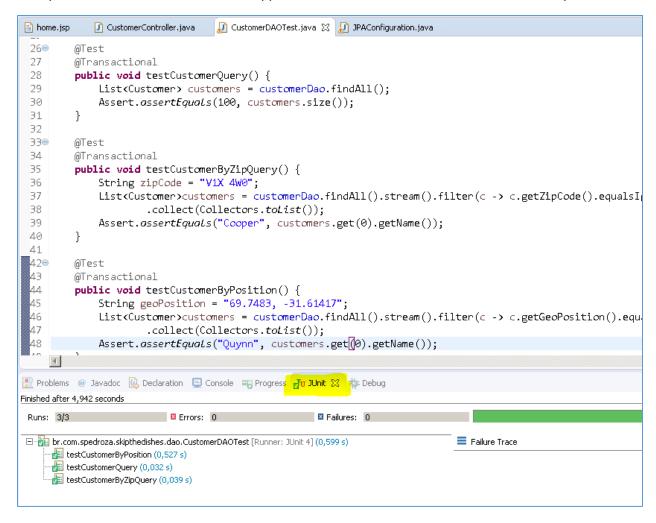
#### <u>HTML</u>



#### **JSON**

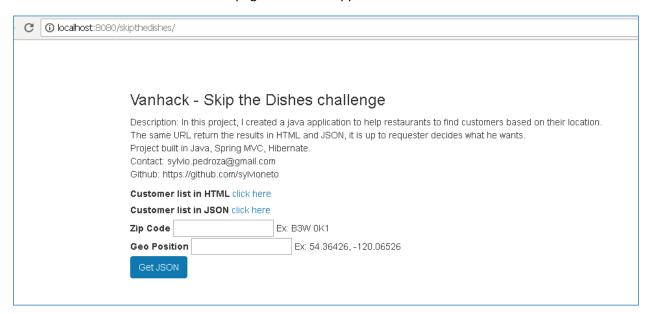
```
{
    "customers" : [ {
        "id" : 1,
        "name" : "Cooper",
        "email" : "Nauris@nequeMorbiquis.org",
        "phone" : "(631) 402-3520",
        "zipCode" : "VIX 4N0",
        "geoPosition" : "-18.57102, 121.98763",
        "birthday" : {
            "year" : 1995,
            "month" : "NOVEMBER",
            "dayOfMonth" : 30,
            "dayOfMonth" : 334,
            "leapYear" : false,
            "monthValue" : 11,
            "chronology" : {
                 "id" "ISO",
                  "calendarType" : "iso8601"
            }
        }
}
```

Finally, I wrote JUNIT classes to test the application. So, it can be used in Continuous Delivery workflow.



# **Testing**

You can use a browser and the home page to test the application:



#### Or any tool you want:

