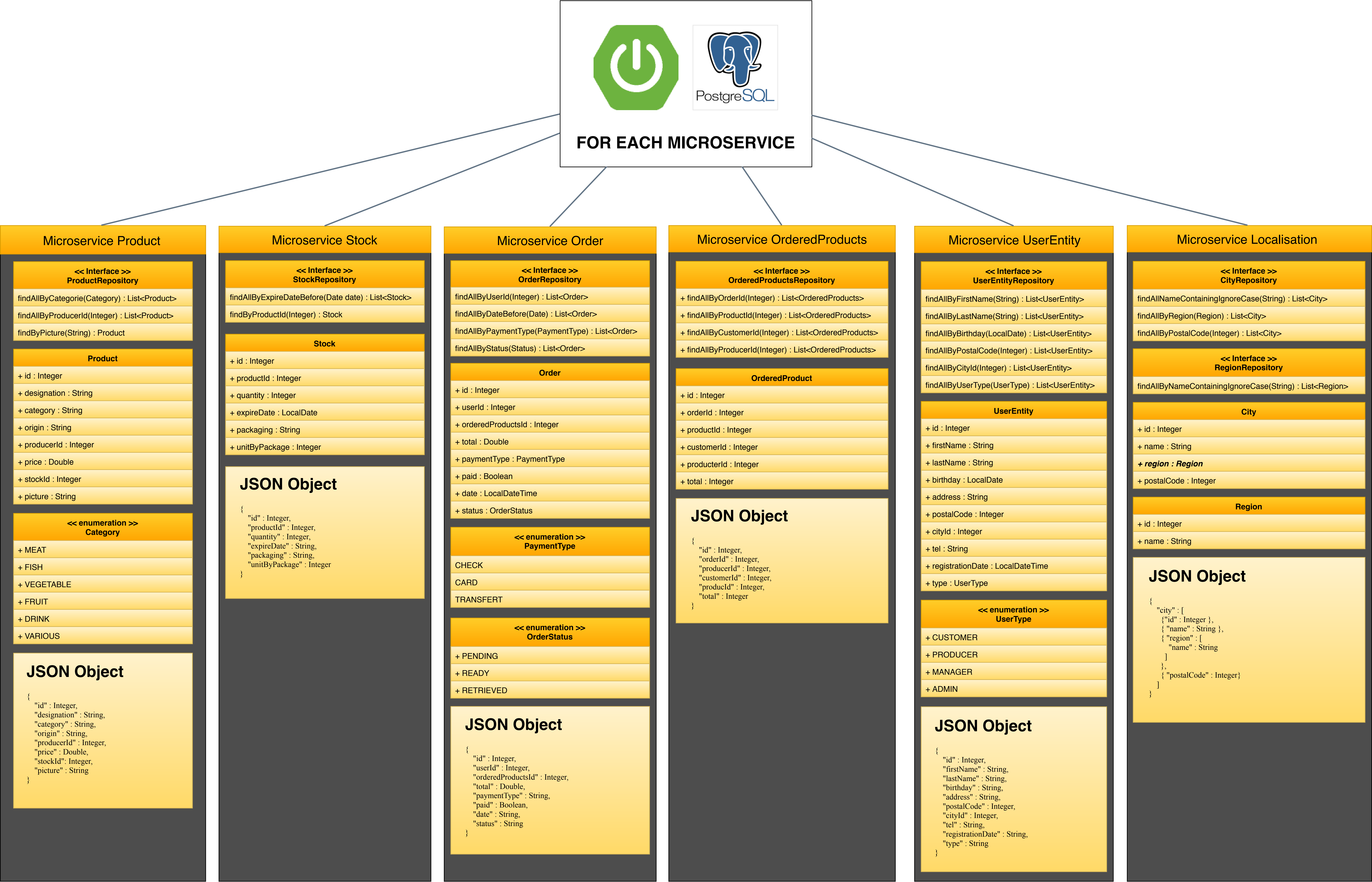

## FOR EACH MICROSERVICE

## Microservice Product

**<< Interface >>**
**ProductRepository**

- findAllByCategorie(Category) : List<Product>
- findAllByProducerId(Integer) : List<Product>
- findByPicture(String) : Product

**Product**

- + id : Integer
- + designation : String
- + category : String
- + origin : String
- + producerId : Integer
- + price : Double
- + stockId : Integer
- + picture : String

**<< enumeration >>**
**Category**

- + MEAT
- + FISH
- + VEGETABLE
- + FRUIT
- + DRINK
- + VARIOUS

### JSON Object

```
{
   "id" : Integer,
   "designation" : String,
   "category" : String,
   "origin" : String,
   "producerId" : Integer,
   "price" : Double,
   "stockId": Integer,
   "picture" : String
}
```

## Microservice Stock

**<< Interface >>**
**StockRepository**

- findAllByExpireDateBefore(Date date) : List<Stock>
- findByProductId(Integer) : Stock

**Stock**

- + id : Integer
- + productId : Integer
- + quantity : Integer
- + expireDate : LocalDate
- + packaging : String
- + unitByPackage : Integer

### JSON Object

```
{
   "id" : Integer,
   "productId" : Integer,
   "quantity" : Integer,
   "expireDate" : String,
   "packaging" : String,
   "unitByPackage" : Integer
}
```

## Microservice Order

**<< Interface >>**
**OrderRepository**

- findAllByUserId(Integer) : List<Order>
- findAllByDateBefore(Date) : List<Order>
- findAllByPaymentType(PaymentType) : List<Order>
- findAllByStatus(Status) : List<Order>

**Order**

- + id : Integer
- + userId : Integer
- + orderedProductsId : Integer
- + total : Double
- + paymentType : PaymentType
- + paid : Boolean
- + date : LocalDateTime
- + status : OrderStatus

**<< enumeration >>**
**PaymentType**

- CHECK
- CARD
- TRANSFERT

**<< enumeration >>**
**OrderStatus**

- + PENDING
- + READY
- + RETRIEVED

### JSON Object

```
{
   "id" : Integer,
   "userId" : Integer,
   "orderedProductsId" : Integer,
   "total" : Double,
   "paymentType" : String,
   "paid" : Boolean,
   "date" : String,
   "status" : String
}
```

## Microservice OrderedProducts

**<< Interface >>**
**OrderedProductsRepository**

- + findAllByOrderId(Integer) : List<OrderedProducts>
- + findAllByProductId(Integer) : List<OrderedProducts>
- + findAllByCustomerId(Integer) : List<OrderedProducts>
- + findAllByProducerId(Integer) : List<OrderedProducts>

**OrderedProduct**

- + id : Integer
- + orderId : Integer
- + productId : Integer
- + customerId : Integer
- + producterId : Integer
- + total : Integer

### JSON Object

```
{
   "id" : Integer,
   "orderId" : Integer,
   "producerId" : Integer,
   "customerId" : Integer,
   "produced" : Integer,
   "total" : Integer
}
```

## Microservice UserEntity

**<< Interface >>**
**UserEntityRepository**

- findAllByFirstName(String) : List<UserEntity>
- findAllByLastName(String) : List<UserEntity>
- findAllByBirthday(LocalDate) : List<UserEntity>
- findAllByPostalCode(Integer) : List<UserEntity>
- findAllByCityId(Integer) : List<UserEntity>
- findAllByUserType(UserType) : List<UserEntity>

**UserEntity**

- + id : Integer
- + firstName : String
- + lastName : String
- + birthday : LocalDate
- + address : String
- + postalCode : Integer
- + cityId : Integer
- + tel : String
- + registrationDate : LocalDateTime
- + type : UserType

**<< enumeration >>**
**UserType**

- + CUSTOMER
- + PRODUCER
- + MANAGER
- + ADMIN

### JSON Object

```
{
   "id" : Integer,
   "firstName" : String,
   "lastName" : String,
   "birthday" : String,
   "address" : String,
   "postalCode" : Integer,
   "cityId" : Integer,
   "tel" : String,
   "registrationDate" : String,
   "type" : String
}
```

## Microservice Localisation

**<< Interface >>**
**CityRepository**

- findAllNameContainingIgnoreCase(String) : List<City>
- findAllByRegion(Region) : List<City>
- findAllByPostalCode(Integer) : List<City>

**<< Interface >>**
**RegionRepository**

- findAllByNameContainingIgnoreCase(String) : List<Region>

**City**

- + id : Integer
- + name : String
- ***+ region : Region***
- + postalCode : Integer

**Region**

- + id : Integer
- + name : String

### JSON Object

```
{
   "city" : [
     {"id" : Integer },
     { "name" : String },
     { "region" : [
        "name" : String
      ]
     },
     { "postalCode" : Integer}
   ]
}
```