M1 GLSI

## Cours Inf3522 - Développement d'Applications N tiers

Lab 4: Création de services web RESTful avec Spring Boot

## Verifions si les dépendances sont présentes :

```
dependencies {
   implementation 'org.springframework.boot:spring-boot-starter-data-jpa'
   implementation 'org.springframework.boot:spring-boot-starter-web'
   implementation 'org.springframework.boot:spring-boot-starter-data-rest'
   developmentOnly 'org.springframework.boot:spring-boot-devtools'
   runtimeOnly 'org.mariadb.jdbc:mariadb-java-client'
   testImplementation 'org.springframework.boot:spring-boot-starter-test'
   testRuntimeOnly 'org.junit.platform:junit-platform-launcher'
}
```

## Application.properties:

```
src > main > resources > ≡ application.properties

1     spring.application.name=cardatabase

2     spring.datasource.url=jdbc:mariadb://localhost:3306/cardb

3     spring.datasource.username=root

4     spring.datasource.password=

5     spring.datasource.driver-class-name=org.mariadb.jdbc.Driver

6     spring.jpa.generate-ddl=true

7     spring.jpa.hibernate.ddl-auto=create-drop

8     spring.jpa.show-sql=true

9     # Configuration Spring Data REST

10     spring.data.rest.base-path=/api
```

#### CarRepository:

```
src > main > java > ugb > sat > madsi > repository > J CarRepository.java > ...

1    package ugb.sat.madsi.repository;

2    import java.util.List;

4    import org.springframework.data.repository.CrudRepository;

5    import org.springframework.data.rest.core.annotation.RepositoryRestResource;

6    import ugb.sat.madsi.domain.Car;

7    

8    @RepositoryRestResource

9    public interface CarRepository extends CrudRepository<Car, Long> {

10        List<Car> findByBrand(String brand);

11        List<Car> findByColor(String color);

12    }
```

## OwnerRepository:

```
src > main > java > ugb > sat > madsi > repository > J OwnerRepository.java > ...

1     package ugb.sat.madsi.repository;
2
3     import org.springframework.data.repository.CrudRepository;
4     import org.springframework.data.rest.core.annotation.RepositoryRestResource;
5     import ugb.sat.madsi.domain.Owner;
6
7     @RepositoryRestResource
8     public interface OwnerRepository extends CrudRepository<Owner, Long> {
9     }
10
```

# Mettons a jour nos fichiers et verifions notre base de donnee :

```
MariaDB [cardb]> select * from car;
 model year | price | id | owner | brand
                                       color
                                               model
                                                         registration number
       2023 | 59000
                             1 Ford
                                                 Mustang | ADF-1121
                     1
                                         Red
       2020 | 29000
                             2 |
                                Nissan
                                         White
                                                 Leaf
                                                          SSJ-3002
       2022 39000
                             2 | Toyota |
                                         Silver | Prius
                                                         KKO-0212
 rows in set (0.000 sec)
```

```
"_embedded": {
        "cars": [
                "brand": "Ford",
                "model": "Mustang",
                "color": "Red",
                "registrationNumber": "ADF-1121",
                "modelYear": 2023,
                "price": 59000,
                "_links": {
                    "self": {
                       "href": "http://localhost:8080/cars/1"
                    },
                    "car": {
                       "href": "http://localhost:8080/cars/1"
                   http://localhost:8080/cars/1
 GET
          Authorization
                         Headers (6)
                                         Body
                                                 Pre-request Script
ody Cookies Headers (8) Test Results
 Pretty
           Raw
                    Preview
                                Visualize
                                             JSON V
  1
   2
           "brand": "Ford",
           "model": "Mustang",
   3
           "color": "Red",
   4
   5
           "registrationNumber": "ADF-1121",
           "modelYear": 2023,
   6
   7
           "price": 59000,
            "_links": {
   8
```

