# **Exercises: Integration Testing**

Problems for exercises and homework for the <u>"Java Web Development Basics" course</u> <u>@ SoftUni</u>. Submit your solutions on the **course page** of the **current instance**.

# Car Dealer

Car Dealer is an application for cars and car parts sales accounting. It manages customers, cars, parts, suppliers and sales. You have been given the infrastructure of the back-end – entities, repositories, services, configuration etc.

You will also be given a simple documentation of the application.

## **Documentation**

# 1. Database Documentation

The database of the Car Dealer application supports 5 entities:

### Customer

- Has a Id a UUID string
- Has a Name a string
- Has a Birth Date a LocalDate object
- Has a Is Young Driver a boolean

### Car

- Has a Id a UUID string
- Has a Make a string
- Has a Model a string
- Has a Travelled Distance a 64-bit integer
- Has Parts a collection of Part objects

## **Supplier**

- Has a Id a UUID string
- Has a Name a string
- Has a Is Importer a boolean

#### **Part**

- Has a **Id** a **UUID** string.
- Has a Name a string
- Has a **Price** a **BigDecimal** object
- Has a Supplier a Supplier object.



















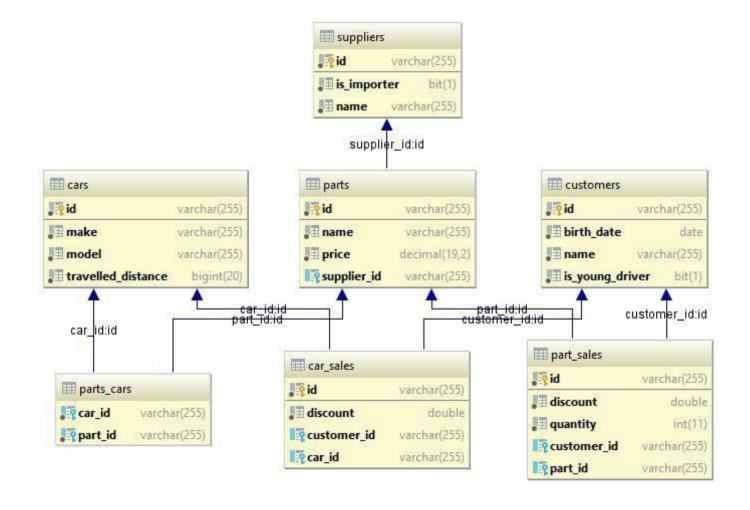
### Car Sale

- Has a **Id** a **UUID** string.
- Has a **Discount** a **floating-point** (percentage)
- Has a Customer a Customer object
- Has a Car a Car object.

## Car Sale

- Has a **Id** a **UUID** string.
- Has a **Discount** a **floating-point** (percentage)
- Has a Customer a Customer object
- Has a Part a Part object.
- Has a Quantity a 32-bit integer.

Here is a database schema:



















# 2. Functionality Documentation

The functionality is:

#### User:

- Register
- Login
- Logout

#### **Customer:**

- Add customer
- List all customers

#### Car:

- Add car
- Edit car
- Delete car
- List all cars

## Supplier:

- Add supplier
- Edit supplier
- Delete supplier
- List all suppliers

#### Part:

- Add part
- Edit part
- Delete part
- List all parts

# **Integration Testing**

You have been tasked to perform Integration testing on the **Web Layer** of the **Car Dealer** application. Test all methods with all possible cases you can think of.

















