Customer

- firstName: String
- lastName: String
- phoneNumber: String
- email: String
- address: String

+ getFirstName(): String
+ setFirstName(firstName : String)
+ getLastName(): String
+ setLastName(lastName : String)
+ getPhoneNumber(): String
+ setPhoneNumber(phoneNumber : String)
+ getEmail(): String
+ setEmail(email : String)
+ getAddress(): String
+ setAddress(address : String)
+ displayCustomerInfo(): String

Service

- serviceName: String
- description: String
- partsCost: Float
- laborCost: Float
- totalPrice: Float

+ getServiceName(): String
+ setServiceName(serviceName : String)
+ getDescription(): String
+ setDescription(description : String)
+ getPartsCost(): Float
+ setPartsCost(partsCost : Float)
+ getLaborCost(): Float
+ setLaborCost(laborCost : Float)
+ getTotalPrice(): Float
+ setTotalPrice(totalPrice : Float)
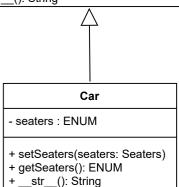+ displayServiceInfo(): String

Vehicle

- ID: String
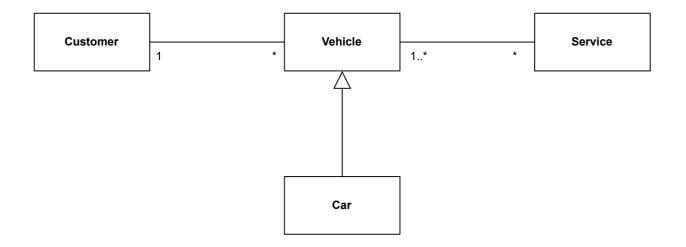- make: ENUM
- type: ENUM
- color: ENUM
- licensePlate: String

+ getID(): String
+ setID(ID : String):
+ getMake(): ENUM
+ setMake(make : Make)
+ getType(): ENUM
+ setType(type : Type)
+ getColor(): ENUM
+ setColor(color : Color)
+ getLicensePlate(): String
+ setLicensePlate(licensePlate: String):
+ __str__(): String

Car

- seaters : ENUM

+ setSeaters(seaters: Seaters)
+ getSeaters(): ENUM
+ __str__(): String

```
+----------+                +----------+                +----------+
| Customer |                | Vehicle  |                | Service  |
+----------+ 1          *   +----------+ 1..*       *   +----------+
                                 /\
                                 ||
                                 ||
                            +----------+
                            |   Car    |
                            +----------+
```

James: Customer

- firstName: "James"
- lastName: "Jones"
- phoneNumber: "816-897-9862"
- email: "James_Jones@gmail.com"
- address: "Ajman - Aljurf"

AD-89034: Car

- ID: "AD-89034"
- make: Make.Nissan
- type: Type.Altima
- color: Color.Silver
- licensePlate: "Ajman 898"
- seaters : Seaters.Four

OilReplacement: Service

- serviceName: "Oil Replacement"
- description: "replacing used engine oil to clean oil"
- partsCost: "50.0"
- laborCost: "10.0"
- totalPrice: "120.0"

Tire: Service

- serviceName: "Tire "
- description: "buying a new tire"
- partsCost: "0.0"
- laborCost: "10.0"
- totalPrice: "80.0"

Diagnostics: Service

- serviceName: "Diagnostics"
- description: "examine the vehicle components and search for problems"
- partsCost: "0.0"
- laborCost: "5.0"
- totalPrice: "15.0"

OliFilterParts: Service

- serviceName: "Oli Filter Parts"
- description: "buying the oil filter parts"
- partsCost: "30.0"
- laborCost: "5.0"
- totalPrice: "35.0"

TireReplacement: Service

- serviceName: "Tire Replacement "
- description: "replacing the old tire with a new tire"
- partsCost: "10.0"
- laborCost: "20.0"
- totalPrice: "50.0"

Garage Service System

Create an account

Authenticate customer

<<include>>

Manage appointments

Repair the vehicle

Generate Invoice

<<extends>>

Apply Discount

Customer

Garage system

Service team

Appointment and Billing team