**Class and its attributes:**

**Person**

* firstName (string)
* middleInitial (string)
* lastName (string)
* phoneNumber (string)
* gender (ENUM)

**Customer**

* firstName (string)
* middleInitial (string)
* lastName (string)
* phoneNumber (string)
* gender (ENUM)

**Mechanic**

* firstName (string)
* middleInitial (string)
* gender (ENUM)
* serviceAmount (int)
* serviceName (ENUM)

**Vehicle**

* make (ENUM)
* model (ENUM)
* color (string)
* year (int)
* vehicleID (string)

**Service**

* number (int)
* serviceName (ENUM)
* itemAmount(int)
* serviceAmount (int)
* currency (ENUM)
* price (float)

**Payment**

* total (float)
* taxes (float)
* discount (float)
* finalAmount (float)
* paymentDate (date)

**Object:**

**Person:**

object1:

* firstName: "James"
* lastName: "Jones"
* middleInitial: "W."
* phoneNumber: "816-897-9862"
* gender: Gender.Male

**Customer:**

object1:

* firstName: "James"
* lastName: "Jones"
* middleInitial: "W."
* phoneNumber: "816-897-9862"
* gender: Gender.Male

**Mechanic:**

object1:

* firstName: “Hans”
* middleInitial: “K”
* gender: Gender.Male
* serviceAmount: “5”
* serviceName: ServiceName.DIAGNOSTICS

object2:

* firstName: “Hans”
* middleInitial: “K”
* gender: Gender.Male
* serviceAmount: “5”
* serviceName: ServiceName.OIL\_REPLACEMENT

object3:

* firstName: “Hans”
* middleInitial: “K”
* gender: Gender.Male
* serviceAmount: “5”
* serviceName: ServiceName.OIL\_FILTER\_PARTS

object4:

* firstName: “Hans”
* middleInitial: “K”
* gender: Gender.Male
* serviceAmount: “5”
* serviceName: ServiceName.TIRE\_REPLACEMENT

object5:

* firstName: “Hans”
* middleInitial: “K”
* gender: Gender.Male
* serviceAmount: “5”
* serviceName: ServiceName.TIRE

**Vehicle:**

object1:

* make: Make.NISSAN
* model: Model.ALTIMA
* color: "Silver"
* year: “2014”
* vehicleID: "AD-89034"

**Service:**

object1:

* number: “1”
* serviceName: ServiceName.DIAGNOSTICS
* itemAmount: “1”
* currency: Currency.AED
* price: “15.0”

object2:

* number: “2”
* serviceName: ServiceName.OIL\_REPLACEMENT
* itemAmount: “1”
* currency: Currency.AED
* price: “120.0”

object3:

* number: “3”
* serviceName: ServiceName.OIL\_FILTER\_PARTS
* itemAmount: “1”
* currency: Currency.AED
* price: “35.0”

object4:

* number: “4”
* serviceName: ServiceName.TIRE\_REPLACEMENT
* itemAmount: “2”
* currency: Currency.AED
* price: “100.0”

object5:

* number: “5”
* serviceName: ServiceName.TIRE
* itemAmount: “2”
* currency: Currency.AED
* price: “160.0”

**Payment:**

object1:

* total: “451.5”
* taxes: “21.5”
* discount: “11.5”
* finalAmount: “440.0”
* paymentDate: “March 13,2022”

**Behaviors of class:**

**Person**

+getFirstName():String

+setFirstName(firstName:String)

+getMiddleInitial():String

+setMiddleInitial(middleInitial:String)

+getLastName():String

+setLastName(lastName:String)

+getPhoneNumber():String

+setPhoneNumber(phoneNumber:String)

+getGender():Gender

+setGender(gender:Gender)

**Customer**

+getFirstName():String

+setFirstName(firstName:String)

+getMiddleInitial():String

+setMiddleInitial(middleInitial:String)

+getLastName():String

+setLastName(lastName:String)

+getCellPhoneNumber():String

+setCellPhoneNumber(phoneNumber:String)

+getGender():Gender

+setGender(gender:Gender)

**Mechanic**

+getFirstName():String

+setFirstName(firstName:String)

+getMiddleInitial():String

+setMiddleInitial(middleInitial:String)

+getGender():Gender +setGender(gender:Gender)

+getServiceAmount():int

+setServiceAmount(serviceAmount:int)

+getServiceName():ServiceType

+setServiceName(serviceName:ServiceType)

**Vehicle**

+getMake():ENUM

+setMake(make:ENUM)

+getModel():ENUM

+setModel(model:ENUM)

+getColor():String

+setColor(color:String)

+getYear():int

+setYear(year:int)

+getVehicleID():String

+setVehicleID(vehicleID:String)

**Service**

+getNumber():int

+setNumber(number:int)

+getServiceName():ENUM

+setServiceName(serviceName:ENUM)

+getPrice():float

+setPrice(price:float)

**Payment**

+getTotal():float

+setTotal(total:float)

+getTaxes():float

+setTaxes(taxes:float)

+getDiscount():float

+setDiscount(discount:float)

+getFinalAmount():float

+setFinalAmount(finalAmount:float)