Program + Program() + Main() : Void UI + UI() + Run(i_Garage: Garage) printWelcomeMessage() . - PrintMenu(): Void addNewVehicleToGarage.. showLicenseNumbersByS... changeVehicleStatus(i_G.

getFuelTypeFromUser(ou...

getFuelToAddFromUser(o.

getMaxFuelCapacityFrom.

getFuelCurrentCapacityFr.

getBatteryTimeToAddFro..

getVehicleBatteryDataFro..

getVehicleEngineCapacity...

getVehicleCargoVolumeF.

getValidIntFromUserInRa.

getValidFloatFromUserIn.

getStringInLengthRangeF. getNameStringFromUser(... getValidPhoneNumberFro..

+ m_ModelName: String + m_LicenseNumber: String + m_VehicleType: eVehicle.. + m_WheelsManufacturer: + m_CurrentAirPressure: Si.. + m_Color: eCarColor + m_Doors: eNumOfDoors + m_LicenseType: eLicense.. + m_EngineCapacity: Int32 + m_ContainDangerousSub. + m_CargoVolume: Single + m_CurrentFuelCapacity: . + m_RemainingBatteryTim.. inflateVehicleToMax(i_Ga. - fuelVehicle(i_Garage: Ga. + VehicleInputData() chargeVehicle(i_Garage: showVehicleDataByLicen... getVehicleDataFromUser(. getVehicleSpecificDataFr.. getOwnerNameFromUser... VehicleCreator getOwnerPhoneNumberF.. getVehicleTypeFromUser.. getVehicleLicenseTypeFr. CreateNewVehicle(i_Vehi... getVehicleColorFromUser. createWheelsList(i_Vehicl. getVehicleNumberOfDoor. createEnergySource(i_Ve. getVehicleStatusFromUse. getVehicleDangerousSub.. getVehicleModelNameFro... getVehicleLicenseNumbe. getWheelsDataFromUser.

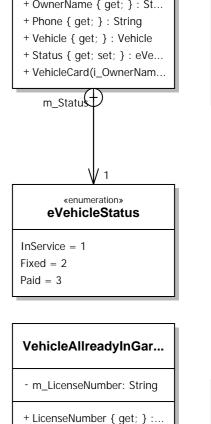
VehicleInputData

«enumeration» eVehicleType Car = 1ElectricCar = 2Motorcycle = 3ElectricMotorcycle = 4 Truck = 5

Battery m_RemainingBatteryTim. - m_MaxBatteryTime: Single + RemainingBatteryTime { + MaxBatteryTime { get; } + Battery(i_RemainingBatte.. + ChargeBattery(i_TimeTo... UpdateEnergyPercentage.. **Fuel** · m_FuelType: eFuelType m_CurrentFuelCapacity: m_MaxFuelCapacity: Single + FuelType { get; } : eFuel.. + MaxFuelCapacity { get; }... + CurrentFuelCapacity { ge.. + Fuel(i_CurrentFuelCapaci... + FuelUp(i_FuelToAdd: Sin.. + UpdateEnergyPercentage... «enumeration» eFuelType Octan95 = 1Octan96 = 2Octan98 = 3Soler = 4A = 1A1 = 2

Vehicle **EnergySource** # m_ModelName: String # m_LicenseNumber: String # m_Wheels: List<Wheel> # m_EnergyPercentage: Si.. # m_EnergySource: Energy. + EnergyPercentage { get; . + ModelName { get; } : Str... + EnergySource() + LicenseNumber { get; } :... + Wheels { get; set; } : Lis.. + EnergySource { get; } : E.. + Vehicle(i_ModelName: St... + GetVehicleType(i_Vehicle. Car Motorcycle Truck m_Color: eCarColor m_LicenseType: eLicense. m_ContainDangerousSub. · m_EngineCapacity: Int32 m_Doors: eNumOfDoors m_CargoVolume: Single + sr_NumOfWheels: Int32 + sr_NumOfWheels: Int32 + sr_NumOfWheels: Int32 + sr_MaxAirPressure: Int32 + sr_MaxAirPressure: Int32 + sr_MaxAirPressure: Int32 + sr_MaxFuelCapacity: Int32 + sr_MaxFuelCapacity: Int32 + sr_MaxFuelCapacity: Int32 + sr_MaxBatteryTime: Single + sr_MaxBatteryTime: Single + sr_FuelType: eFuelType + sr_FuelType: eFuelType + sr_FuelType: eFuelType + ContainDangerousSubsta. + LicenseType { get; } : eL. + Color { get; set; } : eCar.. + CargoVolume { get; set; + EngineCapacity { get; } :.. + Doors { get; set; } : eNu.. + Truck(i_ModelName: Stri. + Motorcycle(i_ModelName. + Car(i_ModelName: String. Truck() Motorcycle() Car() m_LicenseTyp m_Doodos «enumeration» «enumeration» «enumeration» eLicenseType eNumOfDoors | **eCarColor** Red = 1Two = 2Blue = 2Three = 3A2 = 3Four = 4Black = 3B = 4Five = 5Grey = 4

m_EnergySource VehicleCard - m_OwnerName: String m_Phone: String m_Status: eVehicleStatus m_Vehicle: Vehicle + OwnerName { get; } : St. + Phone { get; } : String + Vehicle { get; } : Vehicle + Status { get; set; } : eVe. + VehicleCard(i_OwnerNam. m_Status «enumeration» **eVehicleStatus**



Garage m_Cards: List<VehicleCa.

- + Garage()
- + AddVehicleToGarage(i_O.
- + FindCardByLicense(i_Lice.
- + FindVehicleByLicense(i_Li
- + GetLicenseNumbersBySta.
- + ChangeVehicleStatus(i_Li.
- + InflateVehicleWheelsToM.
- + FuelVehicle(i_LicenseNu.
- + ChargeVehicle(i_License.

Wheel

- m_Manufacturer: String
- m_CurrentAirPressure: Si.
- m_MaxAirPressure: Single
- + Manufacturer { get; } : S...
- + CurrentAirPressure { get;
- + MaxAirPressure { get; } :...
- + Wheel(i_Manufecturer: S..
- + InflateToMaxPressure() :..

ValueOutOfRangeExc...

- m_MaxValue: Single

- m_MinValue: Single

+ MaxValue { get; } : Single

+ MinValue { get; } : Single

+ ValueOutOfRangeExcepti...

WrongFuelException

+ VehicleAllreadyInGarage.

m_WrongFuel: String - m_Fuel: String

+ WrongFuel { get; } : String

+ Fuel { get; } : String

+ WrongFuelException(i_In..