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| **Type: (Class/Enum)** | **Name** | **Members (methods, fields)** |
| Class | Garage | Contain dictionary of Orders,fills gas, recharges, and inflates wheels. |
| Class | Order | Contain details about customer and vehicle |
| abstract class | Vehicle | Contain wheels and engine, can inflate it’s wheels |
| abstract class | Engine | Has an energy amount and can fill it up |
| class | ElectricEngine | Inherits from Engine, Can recharge battery |
| class | GasEngine | Inherits from Engine, Can fil up gas-tank.  has a specific gas type. |
| abstract class | Motorcycle | Inherits from Vehicle  Has a license type and a volume engine,  2 wheels with a max pressure of 28, |
| abstract class | Car | Inherits from Vehicle  Has a color and can have a different number of doors,  4 wheels with a max pressure of 32 |
| class | Truck | Inherits from Vehicle  Has a cargo volume and can have a dangerous materia,  16 wheels with a max pressure of 30 |
| class | RegularMotorcycle | Inherits from Motorcycle  has a GasEngine, Octan95 gas type and 5.5 liter gas tank |
| class | ElectricMotorcycle | Inherits from Motorcycle  has an ElectricEngine and 1.6 max battery time in hours. |
| class | RegularCar | Inherits from Car  has a GasEngine with a 50 liter tank of Octan96 gas. |
| class | ElectricCar | Inherits from Car  has an ElectricEngine with a 4.8 max battery time in hours |
| class | Wheel | has a manufacturer name, can inflate itself,  has a details about it’s air pressure |

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| class | UI | operates the Garage.  gets input from the user and uses the Garage methods to manage vehicles.  shows the appropriate output to user |
| class | Program | has the Entry point to the program  calls UI method. |
| Class | Factory | has dictionary of the supported vehicles  creates vehicles. |
| Class | ValueOutOfRangeException | inherits from Exception  has min value and max value.  thrown when value that is out of range is inserted. |
| Enum | eCarColor | car colors:Gray, White, Green, Red |
| Enum | eGasType | gas types: Octan98 , Octan96 , Octan95 ,Soler |
| Enum | eOrderStatus | order status: OnRepair, Repair, Paid |
| Enum | eLicenseType | Motorcycle license types:A, A1, B1, B2 |
| Enum | eNumOfDoors | number of doors in car: 2,3,4,5 |

