**Names and IDs:**

Ben Weitzman – 207482928

Gal Razabi - 206945701

**List of types:**

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| Name | Class/Enum | Short Explanation |
| GarageManager | Class | A class that handles the interface in front of the user, presents him with a menu relevant to actions and captures and presents the relevant data to the user according to the selected action. |
| InputCheck |  | A class that checks the inputs from the user and auxiliary operations. |
| UI | Class | A class of all output requests to the user. |
|  |  |  |
| Car | Class | An implementation of the Car class that inherits from Vehicle and contains the specific fields relevant to the car.  The class implements the abstract methods of wheel initialization and energy source. |
| ElectricBasedVehicle | Class | A class that inherits from EnergySource.  Specifically realizes electrical energy and uses the general energy addition method of the parent class. |
| EnergySource | Abstract Class | An abstract class that implements an energy source with the relevant fields of quantity, capacity and current percentage of energy, contains a method of adding energy of some kind (activated by the inheriting classes). |
| EnumsProcedures |  | A class that contains all the enums in the program and methods that create a list of enums |
| FuelBasedVehicle | Class | A class that inherits from EnergySource.  Specifically realizes fuel energy and uses the general energy addition method of the parent class. |
| Garage | Class | A class that implements the relevant operations for a garage from a logical point of view, maintains a dictionary of license number and vehicle owners. |
| Motorcycle | Class | An implementation of the motorcycle class that inherits from Vehicle and contains the specific fields relevant to the motorcycle. |
| NewVehicleCreator | Class | A class containing static methods that produce a specific vehicle according to the user's requirement and the data he entered in the user interface. |
| Truck | Class | An implementation of the Truck class that inherits from Vehicle and contains the specific fields relevant to the truck. |
| ValueOutOfRangeException | Class | The class that handles Exception of the type of deviation from a relevant range of values (for example fuel amount). |
| Vehicle | Abstract Class | An abstract class that implements the general methodology of any vehicle - with the relevant fields for each vehicle as well as with abstract methods of engine and wheel initialization with the intention that the concrete children will implement it. |
| VehicleOwner | Class | A class that implements the owner of a vehicle and holds his name, his phone number, the owner's vehicle status and a pointer to his vehicle. |
| Wheel | Class | Wheel class (used as a vehicle field). Contains the relevant fields of manufacturer and air pressure and air inflation method. |

**Diagram:**

