Saggi and Maor and sons Garage

ConsoleFrontEnd – The console front-end to the system

FrontEndAction – An aggregation for all the information about an action available to the front-end

VehicleDataStore – Responsible for creating and modifying vehicles in the data store

VehicleFactory – Responsible for instantiating a proper VehicleInfo object for each available vehicle type

VehicleInfo – Aggregates all the information about a single vehicle

eFixStatus – The fix status of the current vehicles

OwnerInfo – Aggregates all the information relating to the vehicle owner

WheelInfo – Aggregates all the information relating to a single wheel

IEnergySource – An abstraction for all vehicle energy sources

VehicleBattery – Represents a battery energy source for a vehicle

FuelTank – Represent a tank of fuel as an energy source for a vehicle

LimitedContainer – Represents the abstract idea of a container that is limited between 0 and some number.

eFuelType – List of available fuel types

IExtraProperty – Interface for a general property that is added to a vehicle in addition to the core properties. Used for UI introspection

IMultipleChoiceProperty – An extension of IExtraProperty for cases where there are discrete multiple choices instead of all values that conform to a certain format.

SimpleExtraProperty – A simple implementation of the IExtraProperty interface that gets a name, input hint and a validator. It's allows reuse of most of the boilerplate for properties.

IPropertyValidator – Used by SimpleExtraProperty to validate input.

IntValidator – Validates ints between a certain range

FloatValidator – Validates floats between a certain range

\* Couldn't find a way to reuse the code between the two above classes because I needed to cast T to int for the ValueOutOfRangeException and that is impossible for any T.

NonEmptyStringValidator – Accepts any non empty string

YesNoValidator – Accepts either “yes” or “no”

MultipleChoiceValidator – Accepts any of discrete string options

SimpleMultipleChoiceProperty – Creates an ImultipleChoiceProperty that accepts any of discrete string options

ValueOutOfRangeException – Thrown when value entered is out of range

