# Car rental company

Create an application for maintaining vehicle park of a rental company, with the following functionality

Size of site (number of vehicles to store) is predefined (constant) / variable

Vehicle types: Car, Bus, Truck

Vehicle behaviors:

* Age calculations (CurrentYear)
* Transport(distance) -> travel cost (Fuel price)
* Rent(distance) -> travel cost
* SentToTransport
* Rented
* Retrieved(distance) -> cost

## Car properties

* RegNo
* ProductionYear
* FuelConsumption
* TravelledDistance
* NumberOfTransportablePersons
* ComfortLevel

## Bus properties

* RegNo
* ProductionYear
* FuelConsumption
* TravelledDistance
* NumberOfTransportablePersons

## Truck properties

* RegNo
* ProductionYear
* FuelConsumption
* TravelledDistance
* MaxWeightToTrasport

## Transport cost:

* Fuel cost: generic fuel price \* consumption + 15%

## Rental fee calculation components:

* General base fee
* Type dependent base fee
* Transport cost
* Distance cost: travelled distance \* type specific distance price

Storage behaviors:

* Find

User stories:

* As an administrator, I want to register car/bus/truck to maintain a collection
* As a user I want to store RegNo, ProductionYear, FuelConsumption, TravelledDistance, NumberOfTransportablePersons, ComfortLevel about a car to calculate rental and transport costs
* As a user I want to store RegNo, ProductionYear, FuelConsumption, TravelledDistance, NumberOfTransportablePersons about a bus to calculate rental and transport costs
* As a user I want to store RegNo, ProductionYear, FuelConsumption, TravelledDistance, MaxWeightToTrasport about a truck to calculate rental and transport costs
* As a salesman, I want to