

Historias de usuario

1. Como usuario deseo crear vehículos del tipo que esté disponible en el programa.
2. Como usuario deseo crear motores del tipo y las características disponibles en el programa.
3. Como usuario deseo ver la lista de vehículos y de motores existentes para escoger el más adecuado según se requiera
4. Como usuario deseo un modulo de autenticación que valide mis datos para sentirme más seguro en el programa

CRC Cards

Vehicle	
Responsabilities	Collaboration
-It is the main class of the program, of this class will built other class as Car, Truck, etc.	- Engine

Car	
Responsabilities	Collaboration
- This is an instance of Vehicle Class	- Vehicle - Engines - User

Truck	
Responsabilities	Collaboration
- This is an instance of Vehicle Class	- Vehicles - Engines - User

Motorcycle	
Responsabilities	Collaboration
- This is an instance of Vehicle Class	- Vehicles - Engines - User

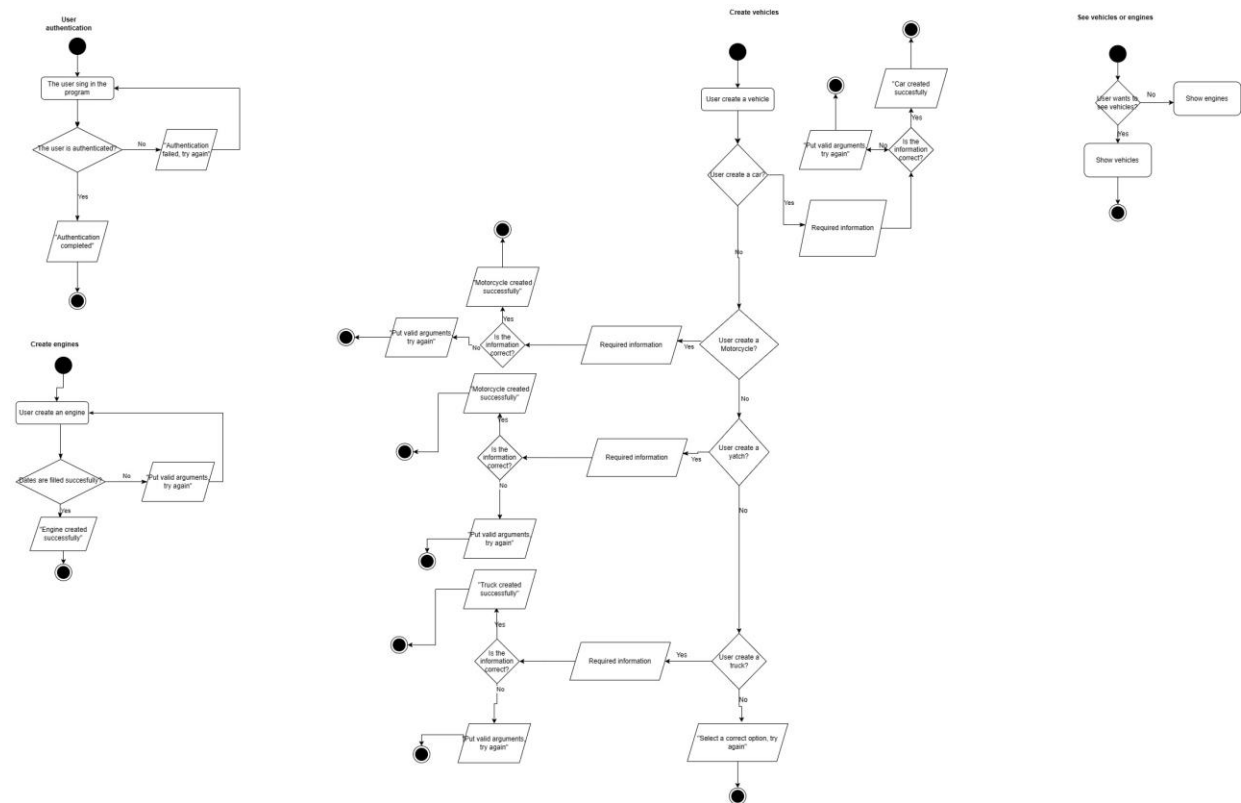
Yatch	
Responsabilities	Collaboration
- This is an instance of Vehicle Class	- Vehicles - Engines - User

Engine	
Responsabilities	Collaboration
This is a part of the car, its function is associate its values with the engine of the constructed car	- Vehicles - User

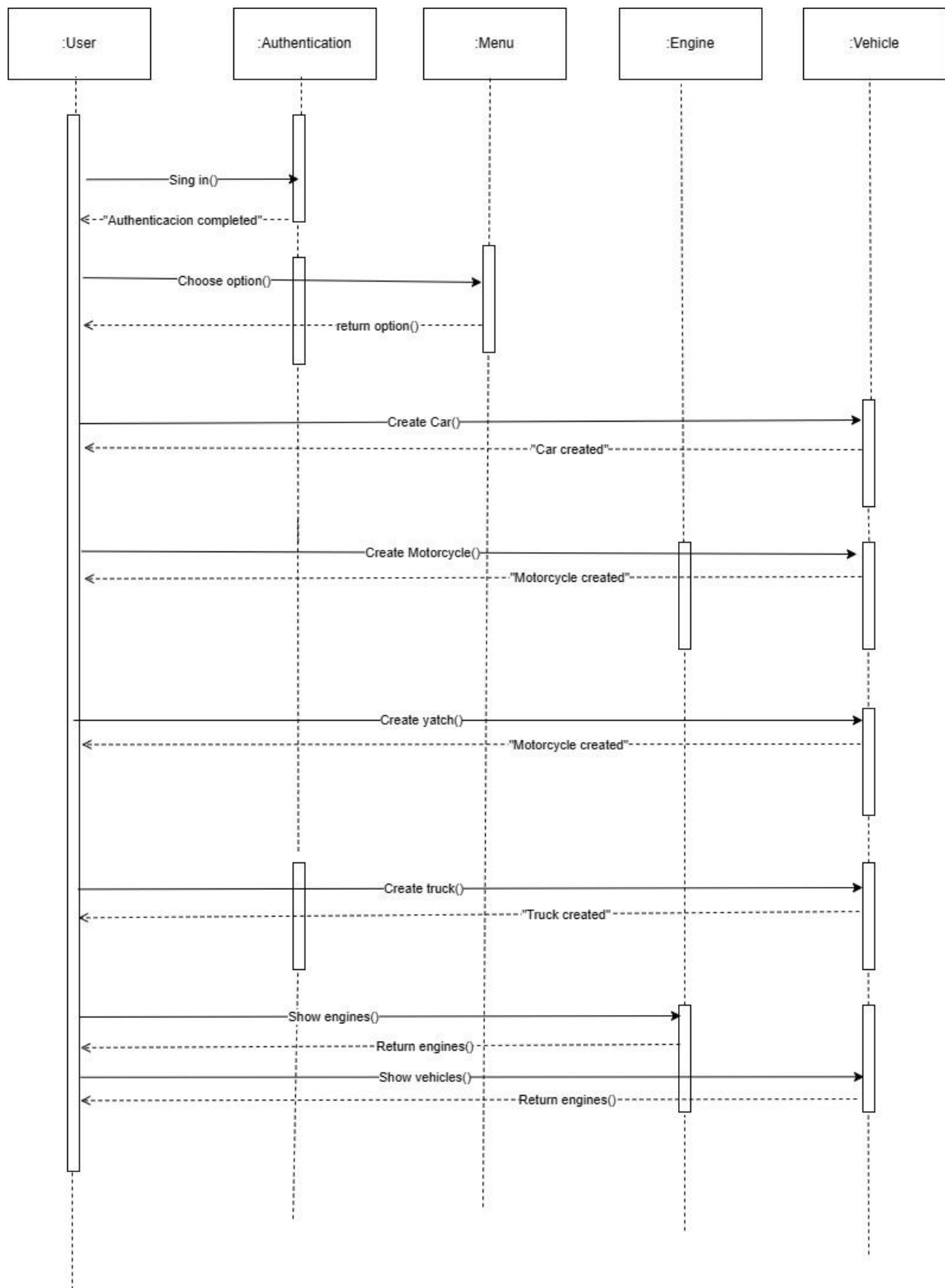
Authentication	
Responsabilities	Collaboration
- Give more security to the system - Notify the user when he join in the program.	- User

User	
Responsabilities	Collaboration
-Create engines - Create vehicles - See the list of the vehicles - See the list of the engines	-Authentication

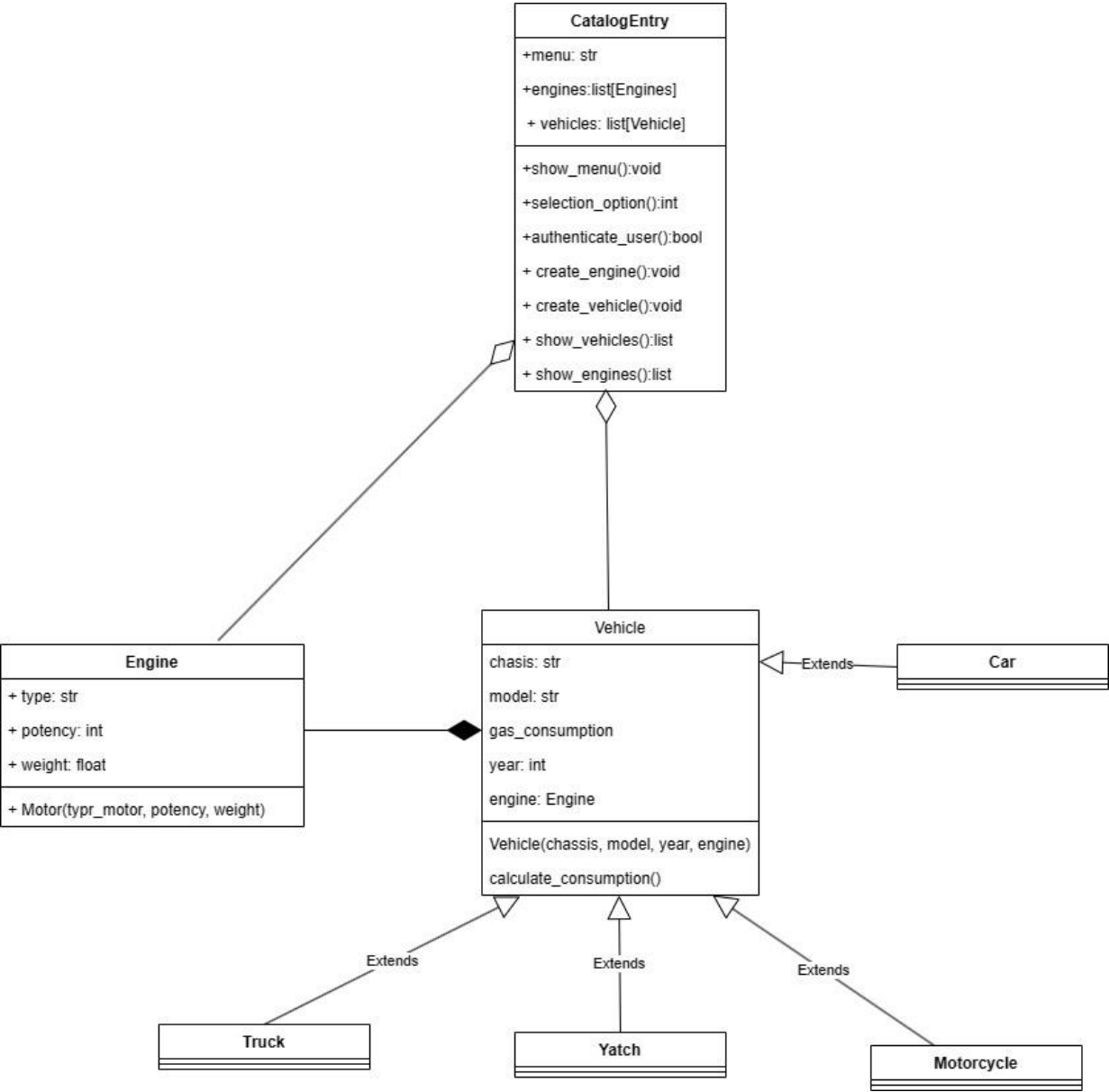
Activity diagram



Sequence diagram

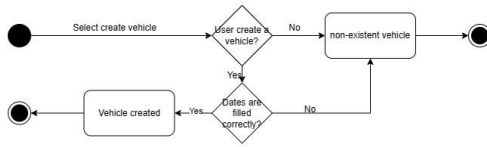


Class diagram

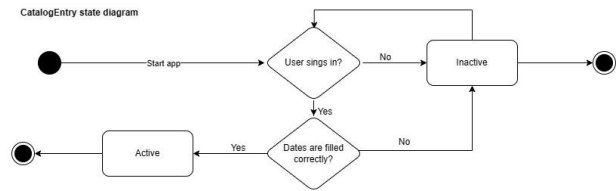


State diagram

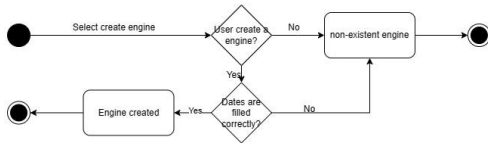
Vehicle state diagram



CatalogEntry state diagram



Engine State Diagram



Code improvements

A class called CatalogEntry is created to have a better management of menu and user ´s interactions. Also, each class will be separated in different modules, except by child classes of vehicles.