Entities

- Users
- Catalog
- Vehicle
- Engines

CRC cards

Vehicles	
- provide vehicle information	Engine Catalog
Truck	
provide truck informationcalculate gas consumption	Vehicle
Catalog	
show a list of vehiclesadd new vehicle (just manager)let user apply filters to find vehicles	Vehicles Engines User Proxy
Engines	
- provide engine information	Vehicles Catalog
FactoryLowEngines	
- create low price engines	Vehicles
FactoryHighEngines	
- create high price engines	Vehicles

User		
- show menu	Catalog	
- handle user interaction options	Decorator	
FactoryHighEngines		
- create high price engines	Vehicles	
Proxy		
- Get data and authentic the login	User	
-	Catalog	
Decorator		
- Monitor the process of the user	User	
L		

Conclusions

The diagram class is better for the goal of the requirements, trying to reduce memory and add new functionalities. But the problem is the development, I took a lot of time programming and that bring consequences such as not complete all the menu with requirements.

The structural patterns help us to think in a better way for know how to solve the problem and the goods things will have in the code and what we can to improve the code, making a code scability, low coupling

Code before coding is a terrible idea, I did it the last workshop and now I make the correct way and I see how I got all the ideas more clear, well , but this workshop is heavy and it affected me

Between more workshops like this, I will improve my logic coding, I still have errors that took me one hour to find the error and the error are like identation, cycles and more.