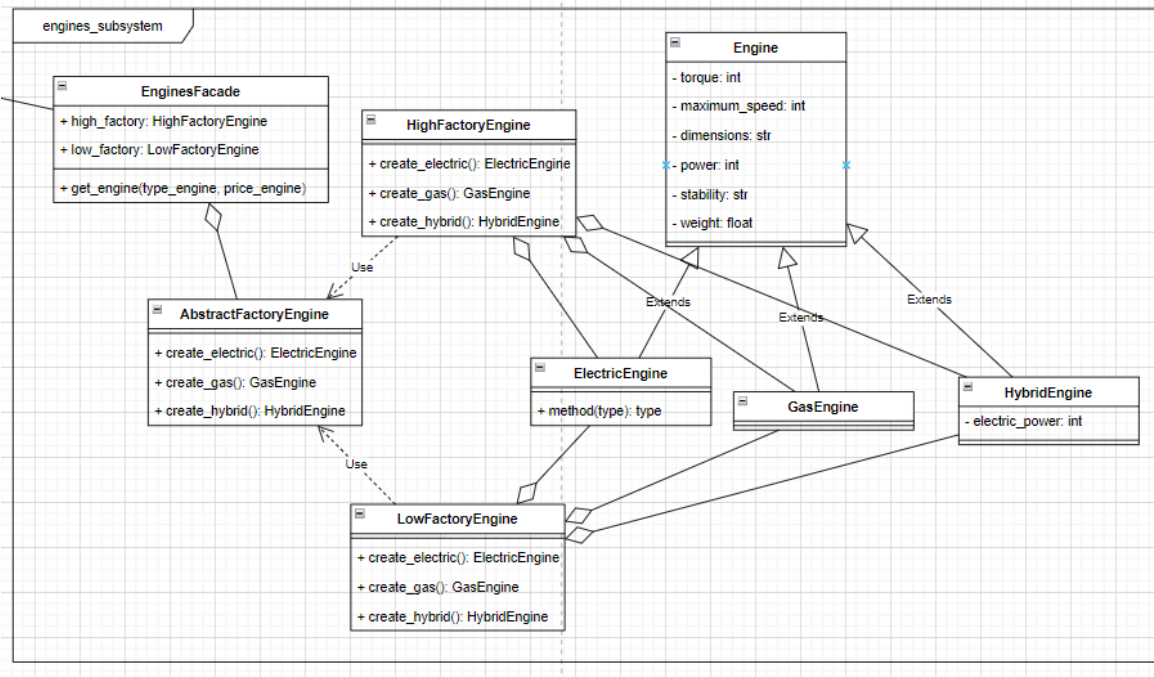


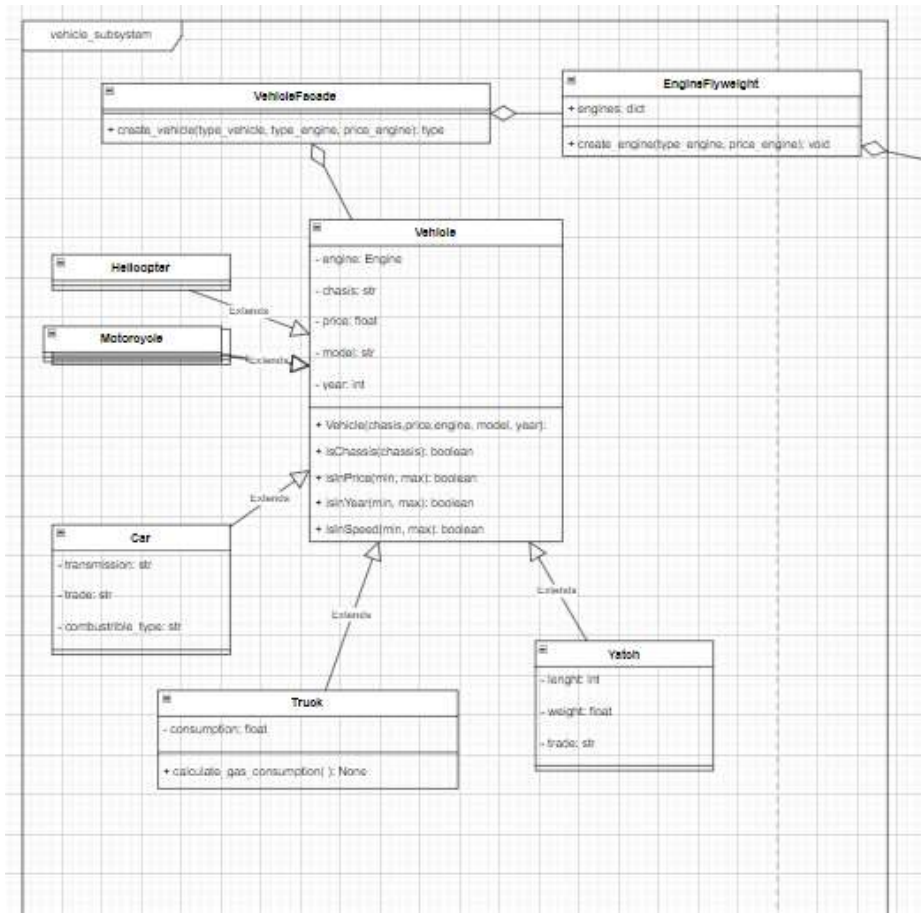
TECHNICAL REPORT

Engine_subsystem



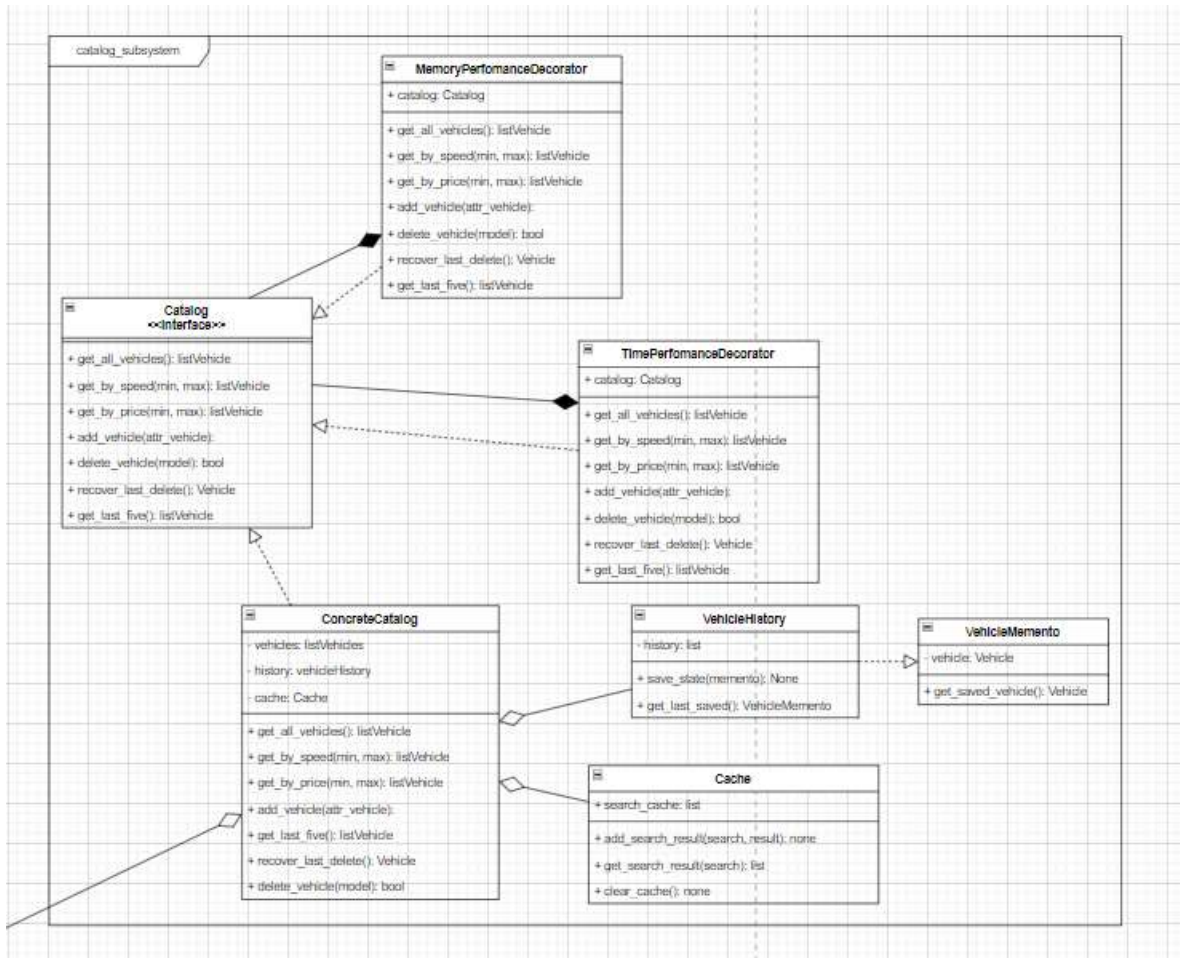
I create the new type engine and create the methods in the classes factories to create the new type of engine.

Vehicle_subsystem



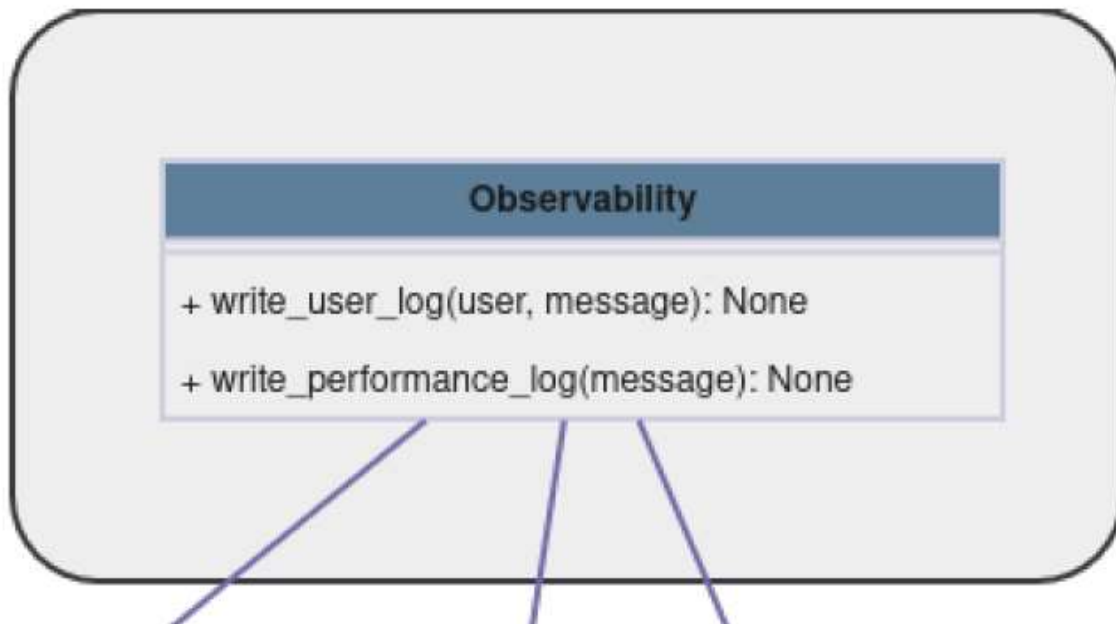
No changes were made to this component.

Catalog_subsystem



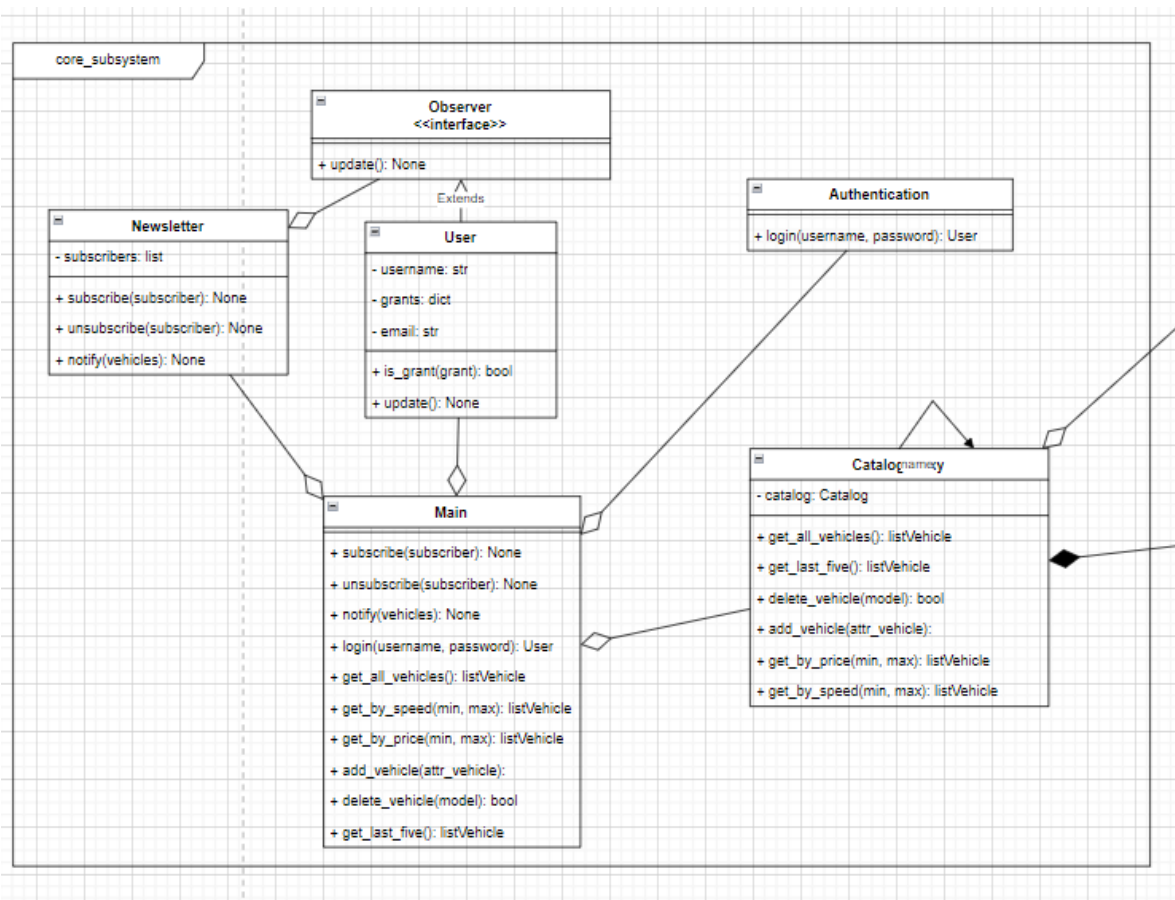
To manage the query cache, I decided to create a class called **Cache** with a singleton pattern that will save and update the cache, saving memory. Use the memento pattern to recover the last deleted item

Observability



No changes were made to this component.

Core_subsystem



Using the observer pattern, create a newsletter class where the subscribers will be saved, you can subscribe, unsubscribe and notify the users, also add a new attribute to user which is the email