Class Diagram

Admin

+ name: str

+ username: str

+ password: str

+ validate_info()

+ add_vehicle(Vehicle): void

Client

+ view_catalog()

Engine

+ type: string

+ potency: float

+ weight: float

+ __str__: string

Vehicle

+ engine: Engine

+ chasis: string

+ model: string

+ gas_consumption: float

+ year: int

+ __str__: string

Car

+ color: string

Truck

Motorcycle

Yacht

+ passenger_capacity: int

CRC Cards

Admin	
- Sing in - Add vehicles	Vehicle

Vehicle	
- Store information about the vehicles - Give information about the vehicles	Class Engine Class Car Class Truck Class Vehicle Class Motorcycle

Engine	
- Store information about the engines - Give information about the engines	Class vehicle

Car	
- Store information about the cars - Give information about the cars	Class Vehicle

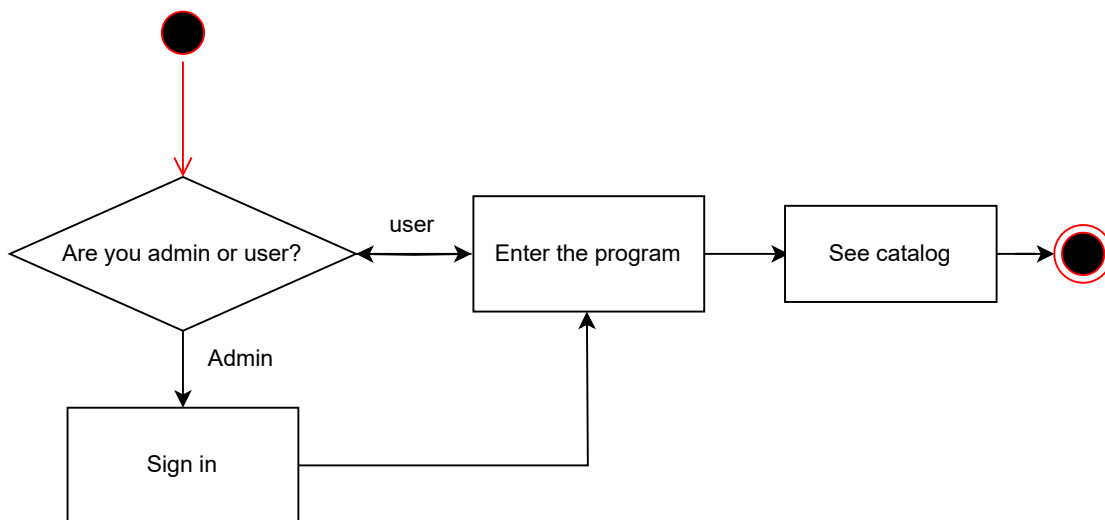| Truck	
- Store information about the trucks - Give information about the trucks	Class Vehicle

Yacht	
- Store information about the yachts - Give information about the yachts	Class Vehicle

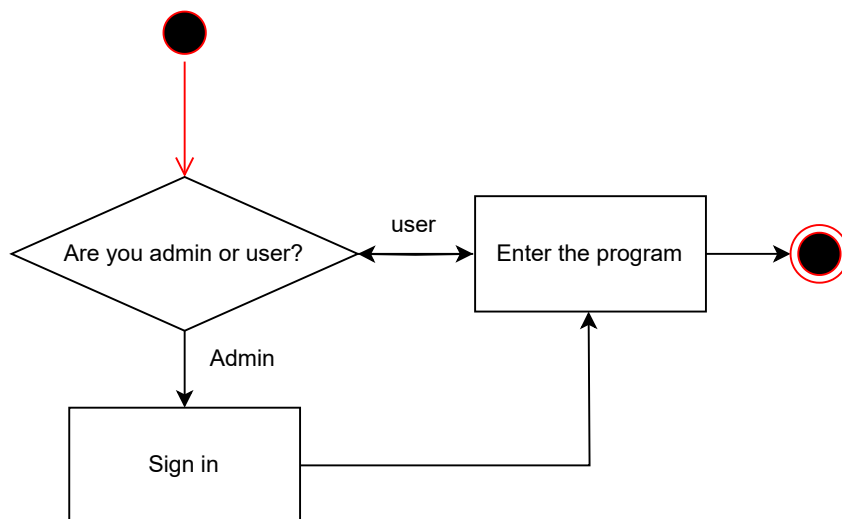| Motorcycle	
- Store information about the motorcycles - Give information about the motorcycles	Class Vehicle

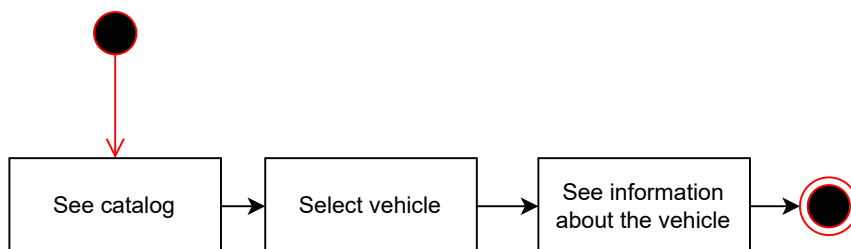| Client	
Search and watch the vehicles	Vehicle

- As client, I want to be able to view a list of available vehicules in the catalog, so that I can explore the options of vehicles

```
        ●
        │
        ▼
  ◇ Are you admin or user? ◇ ←── user ── [ Enter the program ] ──→ [ See catalog ] ──→ ◉
        │
       Admin
        │
        ▼
    [ Sign in ] ───────────────────────────┘
```

As admin, I want to sign in, so that I can be able to add vehicles.

```
        ●
        │
        ▼
  ◇ Are you admin or user? ◇ ←── user ── [ Enter the program ] ──→ ◉
        │
       Admin
        │
        ▼
    [ Sign in ] ───────────────────┘
```

As client , I want to be able to view the details of a specific vehicle, so that I get detailed information.

```
        ●
        │
        ▼
  [ See catalog ] ──→ [ Select vehicle ] ──→ [ See information about the vehicle ] ──→ ◉
```

As client, I want to ve able to filter vehicles by different criteria (brand, model, chassis, etc), so that I easy find those

Select filter vehicles → Select the filter type → Show the vehicles of the selected type →
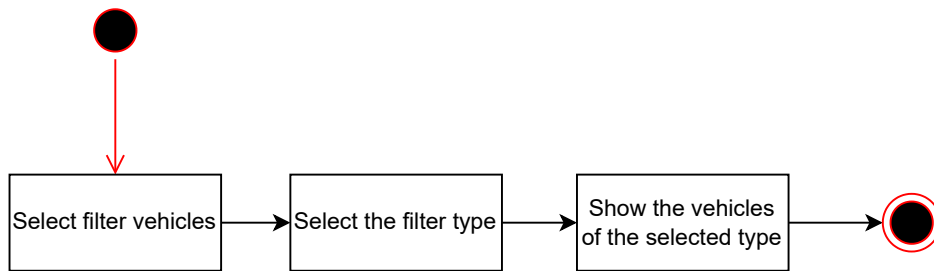
As admin, I want to be able to add vehicle add vehicles to the catalog, so that the clients can see it.

Sign in → Select "Add vehicle" → Add the vehicle information → Add the vehicle to the catalog →