# Technical report: Second workshop advanced programming

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**User stories**

-As a customer I want to have access to a menu to be able to give the specifications of the vehicle I want to buy.

-As a customer I want to have an option in the menu called engine type, to define the type of engine I want in my vehicle.

-As a customer I want to have options in the menu to choose each available vehicle, to create the vehicle I want to buy.

-As a customer I want to have the option in the menu to review the vehicle I have designed, to verify the complete characteristics of the vehicle.

-As an administrator, I would like to have the option to review the vehicles created so far, to determine which vehicles the company offers.

-As an administrator, I want to have the option to review the engines created so far, to determine which engines the company offers.

-As a user I want to have a way to log in, to identify myself in a unique way in the system.

**CRC Cards:**

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| --- | --- |
| Engine | |
| Responsability | Collaboration |
| -Have the attributes of the engine.  -Have a method that allows you to create an engine. | Vehicle  Client  Administrator |

|  |  |
| --- | --- |
| Vehicle | |
| Responsability | Collaboration |
| -Create a vehicle.  -Calculate gas consumption.  -Obtain the model of the vehicle.  -Get the type of chassis,  - Obtain the year of creation of the vehicle.  -Get the engine created by the user.  -Obtain the gas consumption of the vehicle. | Engine  Client  Administrator |

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| --- | --- |
| User | |
| Responsability | Collaboration |
| -Have the user's attributes.  - Register the user with an identifier and a password.  -Sign in.  -Have an access dictionary to determine the user's role. | Engine  Vehicle  Client  Admin |

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| --- | --- |
| Client | |
| Responsability | Collaboration |
| -Have the attributes of the customer.  - Register the customer with an identifier and a password.  -Obtain the customer's vehicles.  -Sign in | Engine  Vehicle  User |

|  |  |
| --- | --- |
| Admin | |
| Responsability | Collaboration |
| -Have the attributes of the admin.  -Register the admin with an identifier and password.  - Get the vehicles created in the system.  -Get the engines created in the system.  -Sign in | Engine  Vehicle  User |

To do: moto, car, yate …..

**Class diagram**