

# Interação Pessoa-Máquina 2023/2024

# Engine4u

# Stage 3: 1<sup>st</sup> Prototype Report



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Lab class nº P3

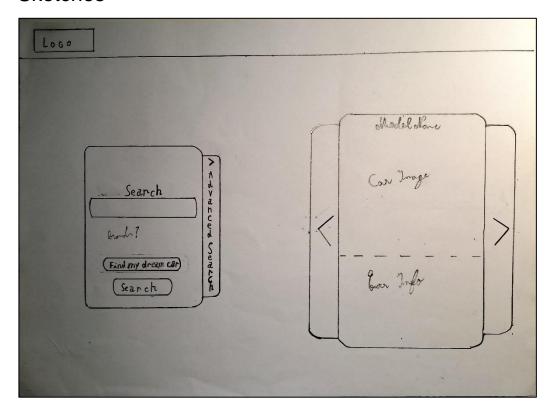
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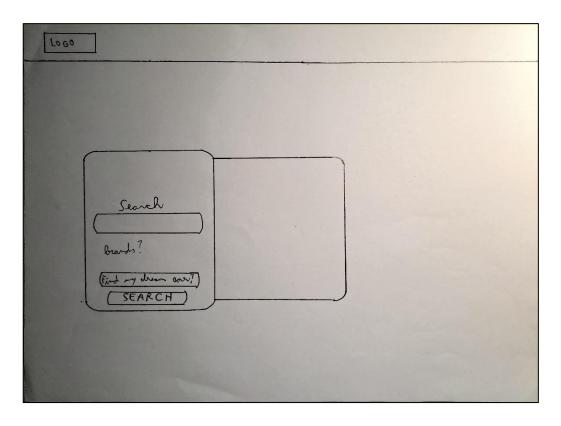
**Professor:** 

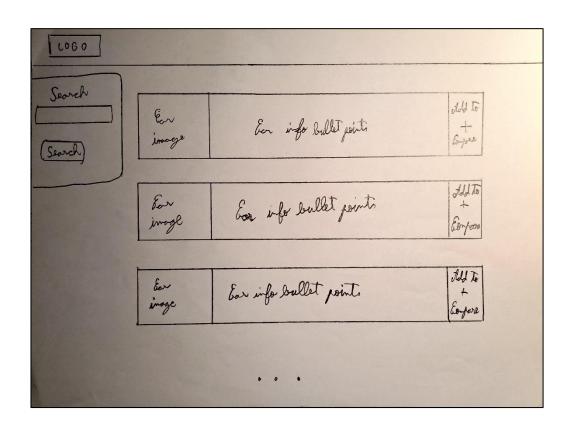
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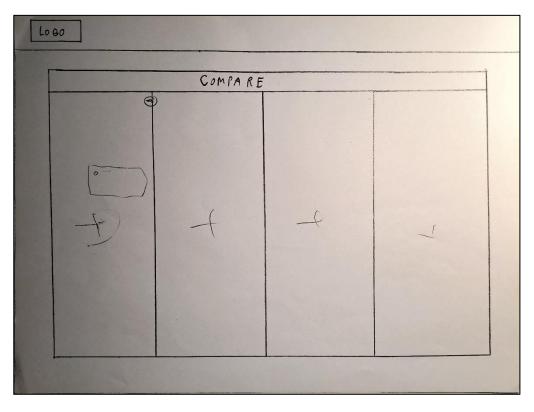
October 2023

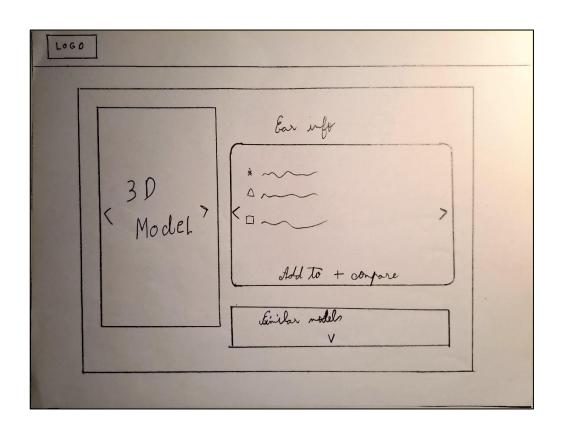
# Sketches



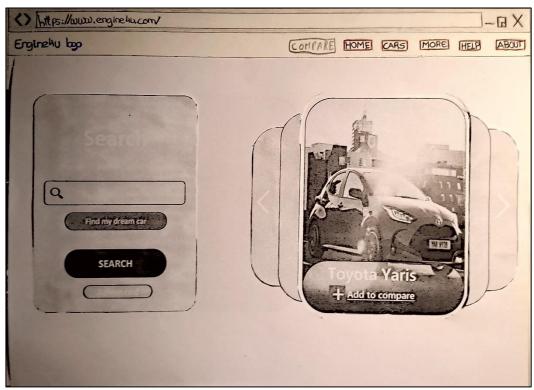


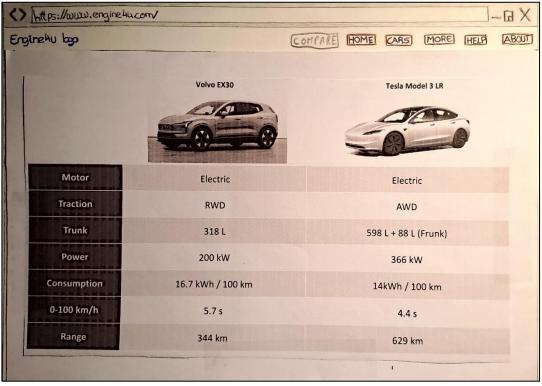


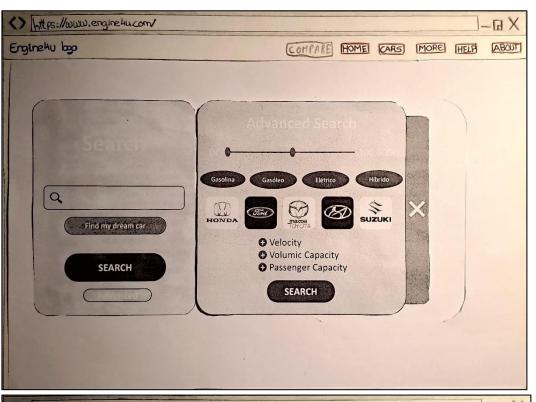


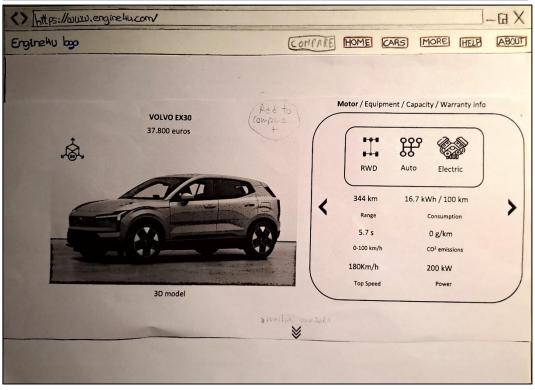


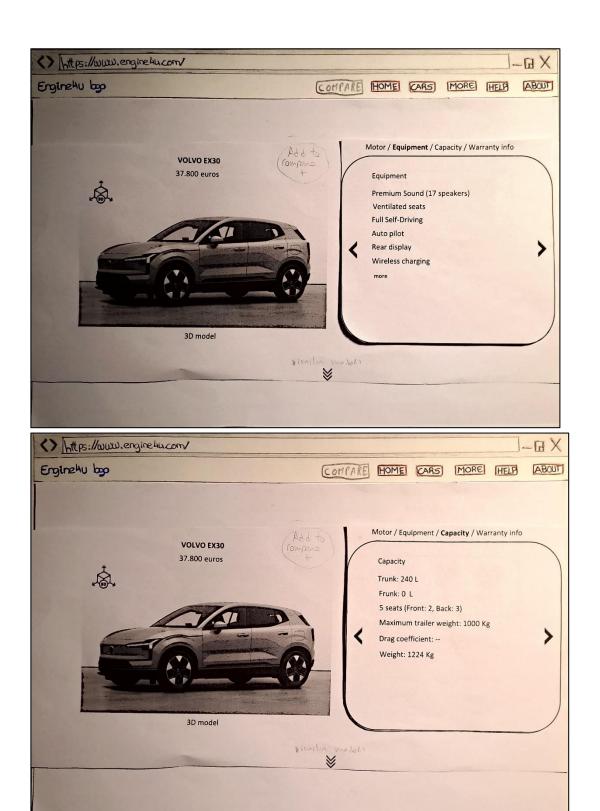
## Prototype Photos

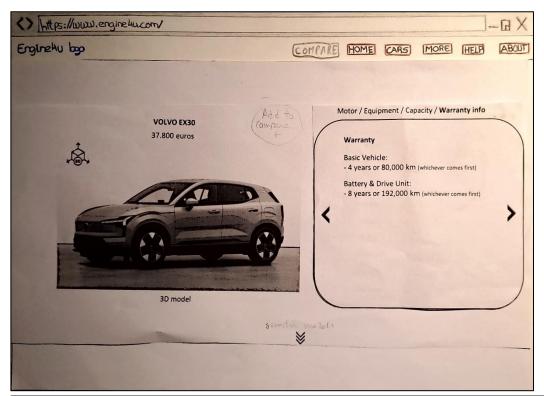


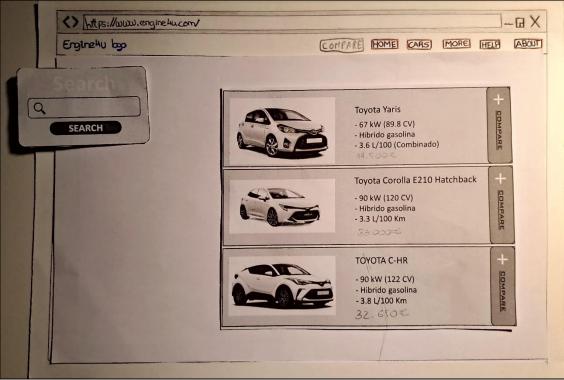








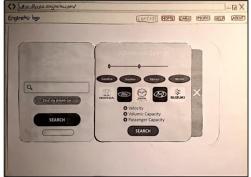


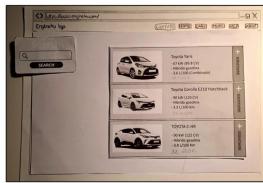


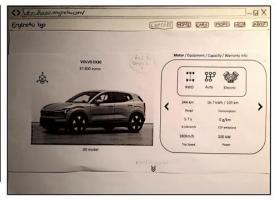
## Storyboards

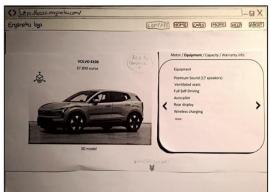
On the next page, a storyboard for an advanced search task.

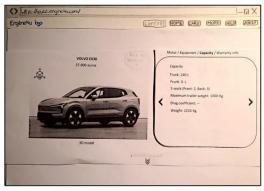


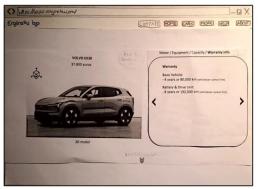












#### Scenarios

ENGINE4U aims to help you find the best car for you, know more information about any car model, and compare the specifications of your favorite models.

We chose to build this website because we are aware that typically information is very dispersed and unorganized across the internet and, especially for novice drivers, it can get overwhelming when trying to find the car that will better suit their needs. For enthusiasts, our website will also allow several operations for them to better find the desired information. We are looking forward to making the website easily accessible for people of all ages and backgrounds.

In these tests, we are trying to understand if our solution is designed in a way that can help the type of users previously described, achieve without a lot of effort.

#### Scenario 1

João, who is 26 years old, is interested in VOLVO EX30 which he saw on the street right next to the bus stop where he catches the bus every day to his new job. In order to find it, he uses our website to look for it and get a detailed description of that same model.

#### Scenario 2

António, who is 58 years old, is not so confident his favorite models, VOLVO EX30 and TESLA MODEL 3 LR, have that many differences. To understand how different the models are, he uses our website to see the images from both models and their information.

#### Scenario 3

Rodrigo, who is 21 years old, has been saving money to buy his first car, now that he passed the exam to get his driver's license. Although is very excited, he is still struggling to find a car that will perform on his needs while staying on budget. To find the best solution, he uses our website, by indicating that he is looking for a hybrid model, preferably a Suzuki, with 5 seats, and not more expensive than 50.000€.

#### **Observations**

All the five users who tested the prototype understood the briefing.

#### For scenario 1:

Three of the users corresponded to the group's expectations when performing the task.

One used the carousel which made the group see this option as one other way of performing the task correctly.

The second user was unconclusive since he did not do any of the things expected and had to be helped by the group to achieve the task's goal.

Some recommendations were given, which were:

- Make the information categories' bar, in the model's specifications page, more visible and should be clickable for a faster navigation.
- o Clicking in the carousel presented models is essential for a faster navigation.

#### For scenario 2:

For this scenario, all users managed to achieve the goal using different components, which made the group aware of the different possibilities for this task and the elements in the interface that can lead to some error.

Three of the users started from the task they performed in the previous scenario.

One only used simple search to compare the models.

One used the carousel and simple search.

Some recommendations were given, which were:

- Even though the purpose of the website is another, the prices in comparison table should also be visible to compare.
- To include an Add to Compare button in the models' specifications page, for a faster performance.
- o The comparison table should be presented as a pop-up window and not as a full page.

#### For scenario 3:

All five users achieved the goal but in this scenario the group got to see some confusion while the prototype was being tested, with one of them expressing it directly to the group. The group, after the tests, was capable of understanding that maybe the prototype was not built successfully to perform the task for this scenario easily.

One of the users did not use any of the advanced search options available.

Three of the users used the *Find My Perfect Car* option but one expressed that did not understand the difference between this and *Advanced Search* and another expressed that maybe he would use more the *Advanced Search* option. To find a better and clearer use for each one of these options, is something to consider in the next prototype.

Some recommendations were given, which were:

- In each model's page of the results, the list should be always visible for an easier comparison between them.
- The results should be automatically compared when presented to better understand the differences between them.

Lastly, only one of the users was a woman and, while testing the prototype, seemed quite uninterested which led the group to confirm the target user group presented in previous reports.