

# **CarCompare project scope**

Group: Ahch-To

## **1. Main Idea**

### **Main Idea:**

A **Web** application that allows the user to choose a car that fits them given some tags that the user specifies. For example, does the user want an electric car? Then the tag “electric car” should be applied and only show electric cars. We wish to encourage low emission and generally more environmentally friendly cars, thus the default sorting should be giving the best cars in that regard rather than price. (Sorting by price should also be possible)

This idea is developed with the “Climate action”, and “Sustainable Cities and Communities” goals in mind. The main goal is to allow the users to compare and encourage them to choose a car that contributes less to greenhouse gasses.

## **2. Digital Tools**

Trello - Product Backlog: <https://trello.com/b/7mEv5mCL/demo-agil>

Primary API: <https://api.auto-data.net/vehicle-api-parameters>

Figma - Tool for designing: <https://www.figma.com>

We will primarily use an API called auto-data, which should give us a lot of information about a wide variety of cars from the engine type to how much emission the car is estimated to emit.

## **3. MVP Requirements**

A list of cars sorted by CO2 emission weighted by all electric range. The design of the website should be aesthetically pleasing and Easy to navigate. Homepage of the website should instantly display the list of cars.

## **4. Deliverables**

- Functional website with space for filter tab, car list and additional information for specific cars.

### **Acceptance criteria:**

- Must be able to access the website from a local desktop computer.
- Website design implementation
  - More targeted towards environmentally friendliness
  - The list is in the horizontal center of the page
  - Follows the overall structure of the design mockup however colors and content are subject to change.
- Gathering and displaying a car on the website in the car list.
  - An entry of the website list is occupied by a car's name, year of make and carbon emission. There must be room for an according to the design mockup.

- Ability to click on an entry in the car list to expand it and view available data.
  - Should be easy to read the information about the car, therefore not too small font etc.
- Display a list of vehicles with basic sorting based on CO2 emission.
  - No weighting required however cars with larger emissions should never be placed out of order.
- Display an image of the vehicle next to the listing on the website.
  - The image should be transformed to fit the size of the allocated image slot.
- Car filter implementation of functionality and design only concerning acceleration however with space for additional variables.
  - Filter tab should be expandable and not hide information behind it. Cars not conforming to the filter should not be visible in the list. List should be updated with new filter requirements once the user presses the “filter button” to filter the list.
- Sorting mechanism so that the user can sort by available filtration variables.
  - The currently set settings for each variable should always be displayed if not compacted.
- Button to link a search result from google containing more information about the vehicle (eg: <https://www.google.com/search?q={VehicleName+GenYear}> ).
  - Should direct to the specific car model and generation in google
- A secondary page containing information about why having an environmentally friendly car is very important for each individual carbon footprint, linking it to the UN goal 13 and 11, plus more specific subgoals.
  - The page should be accessible from front page.
- An Error page if something went wrong so the user does not see specifications about the code.

## 5. Mockup

LOGO

CarCompare

About

Filter

Sök bland 77 produkter

Dölj filter ^

Tillverkare:

Pris (kr) från:

Hastighet (GHz) från:

Antal kärnor (st) från:

☐ I lager ☐ Dölj fynd

Pris (kr) till:

Hastighet (GHz) till:

Antal kärnor (st) till:

Antal trådar (st) från:

TDP (W) från:

Modell:

CPU generation:

Antal trådar (st) till:

TDP (W) till:

Processorsocket:


Filter

Visar 77 produkter

Återställ filter och visa alla

Produkter

Sorterat på: Produktnamn A-Ö




AMD Ryzen 3 4100 3.8 GHz 6MB

Antal kärnor: 4 st | Antal trådar: 8 st | TDP: 65 W

1 190 kr

Show

☐




AMD Ryzen 5 4500 3.6 GHz 11MB

Antal kärnor: 6 st | Antal trådar: 12 st | TDP: 65 W

1 390 kr

Show

☐




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1 190 kr

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Roughly our design for the project. Nothing is completely determined, of course we believe that we will make changes during the work process with the design.

## 5. Definition Of Done

- Following coding standards: MVC, commented and documented code blocks/complex parts, code should be functional
- Implementing a deliverable into the system shall not break other parts.
- Unit testing when there are valid concerns of potential bugs.
- Must pass peer-review of code from an outside member.
- Must conform to the acceptance criteria
- Must update documentation to reflect implemented deliverables.

## 6. Deadline and Budget

The deadline for the project is on the 13th of October and we have procured enough budget to buy api access to auto-data. Available human resources are four people which are designated to work a maximum of 20 hours per week.

## **7. Team Responsibilities**

The team consists of a scrum master and developers. The scrum master will be rotating each sprint and will keep the project rolling by any means necessary. Developers will be communicating with each other and the scrum master during the sprint to facilitate a good development pace. The scrum master will also develop while they are not caught in their primary responsibilities.

Scrum master allocation for each week:

1. Ebu
2. Christoffer
3. Adam
4. Tor
5. Christoffer