# Vehicle Search

One of the key features in our web shop is the possibility to select a vehicle as main filter and only show search results in the product search that fit the selected motorcycle or ATV.

## General task description

Your task is to build vehicle search based on the data attached to this task. Data could be imported and validated via script by executing commands in console or prepared in SQL files for simple data import.

The goal is to have a single-page website in which the user can search and filter our list of vehicles by certain criteria.

After selecting a vehicle, the matching list of parts that actually fit on this vehicle should be listed.

The chosen vehicle and the possibility to change the chosen vehicle should remain accessible at all times.

The site should be responsive.

In our technology stack we mainly use Symfony full-stack framework, Doctrine ORM and MySQL together with Frontend stack JavaScript, jQuery and Bootstrap 4. You may choose frontend and/or backend frameworks that suit you best and you like to work with. Do keep in mind though that we do want to get an impression of your coding style. Choose which functionalities you develop more yourself and for which ones you eventually choose extensions.

You do not need to integrate other website functionality that are outside of the scope of this task.

After finishing please provide all necessary data to run the project on a local LAMP stack. Please provide information how to setup the project in a README file.

## Task details

1. Vehicle Search   
     
   As a User I want to search the vehicle database by certain attributes that are typical for motorcycles, ATVs, etc.  
     
   The filter attributes are:
   1. bike producer (i.e. brand)
   2. model name
   3. engine size (i.e. displacement)
   4. model year

A typical bike information a user would expect looks like this:

Honda NX 650 Dominator RD02 1988

The order of the attributes in the filter form is not relevant. But the filters depend on each other. That means if the user selects Honda as brand, the other filter lists should be updated so that they only show values that match Honda bikes in the database.

If the user starts the search for matching vehicles, please show a list of available vehicles so he or she can select a bike. Choose a layout and type of presentation that you think is good for this purpose.

1. Parts List   
   After Selecting a vehicle the page should list the matching parts for that bike in a list or grid.

This is optional: Feel free to add additional functionality to this list. These could be a search or filter, maybe a pagination or presentational overlays, etc.

## Provided Data:

* vehicles.xlsx
* parts.csv

## Good luck!