Tests for new developers applicants

Hi there, and thanks again for your interest in joining Visaya!

If you're reading this, is because the initial conversation was promising and we would like to know more about the way you work and "your style". The second best thing apart from working together is sharing some of the challenges we faced in our journey - and ask you the question we asked ourselves "how would you solve this?".

Below are a couple of these challenges, pick the one you feel more comfortable with - or both amongst them if you can't choose.

Feel free to use the tools you are more familiar with, just make sure that we can run the code you write ;)

Good luck and we can't wait to see what you come up with!

Configurator logic [Frontend]

Here at Visaya we manage very complex products. Most of the products have different options for configuring and one option can have multiple values for you to select, only one value can be selected per option. There are some values for these options that when selected exclude values for other options.

The options, values and exclusions can be described with the following json file
https://drive.google.com/file/d/1PHWg7YYHsbBLIHQq8PtAX1OiU7DmbaPr/view?usp=sharing

As a means of explaining the file above, the exclusions should work the following way:

- When 14015 is selected values 14049 and 14026 should not be available.
- When 14049 or 14026 are selected 14015 should not be available.
- When 14015 and 14027 are both selected 14050 should not be available.

You will have to put in place a frontend solution that enforces any incoming exclusions when configuring a product. Make sure your solution also runs on IE11.

Frontend

Build a product listing based on data from the following endpoint:

https://visaya.solutions/en/rest/V1/visaya/search/devices/?categories[]=51&order_by=score&order=desc&current_page=1&per_page=5
[output type is dependant on your request headers, if you prefer JSON, that's also an option]

The product list should be filterable by the attributes listed below, in this case you just need to add additional attributes to your query string:

- Slider [min 0, max 6500]
    - Price range: *from_price=0&to_price=940* (values in EUR)
- Checkboxes
    - GF Piping Systems products only: *manufacturer[]=1714*
    - Coriolis: *measurement_technology_paramet[]=274*
    - Chemical applications: industry_or_application[]=424

The list should be paginated and orderable by *score*, *name* and *price*. It should work on IE11 as well and be responsive.