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KAYAK full stack software engineer homework

1. Calculate number frequency in a list

Given a list of integers A, print appearance frequency of each number in the list.

Example:

A = [1, 4, 1, 5, 8, 1, 3, 5, 1, 4, 1, 3, 7, 2]

Output:

frequency:5, 1, 2, 2, 2, 0, 1, 1

number :1, 2, 3, 4, 5, 6, 7, 8

Requirements

The program should be implemented in JAVA language.

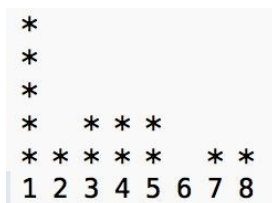
The program should accept list A as an argument either in command line or in UI.

Numbers line should have all numbers from min(A) to max(A) even if it does not appear in A (e.g. 6)

Numbers in the two lines should be aligned.

Bonus points:

Instead of printing number of appearance, draw a graph similar to this:



2. Create UI for cars category filter

You can see a working example of the filter here:

https://www.kayak.com/cars/Boston,MA-c25588/2019-12-05/2019-12-12;map?sort=rank_a

Your implementation should match styles of the example as close as possible.

Car Type filters

Main filter: ALL, SMALL, MEDIUM,LARGE,SUV,VAN, More (expandable section)

More filter: Pickup Truck, Luxury, Convertible, Commercial

Functionality:

More than one filter can be selected at the same time.

If at least one filter selected, "ALL" is unselected.

If "ALL" is clicked, all filters are unselected, "ALL" Becomes selected.

More is a dropdown, opens on More button click.

More section has Multiple Checkboxes.

Clicking outside dropdown content, closes "More Dropdown"

Requirements:

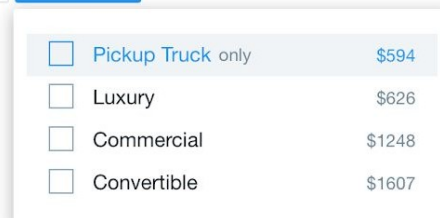
Create HTML, + CSS, + JS

Can use LESS, SASS if needed.

Can use any JS library or framework (REACT or ANGULAR is preferred but not mandatory)

Implement *only* buttons, nothing else is needed.

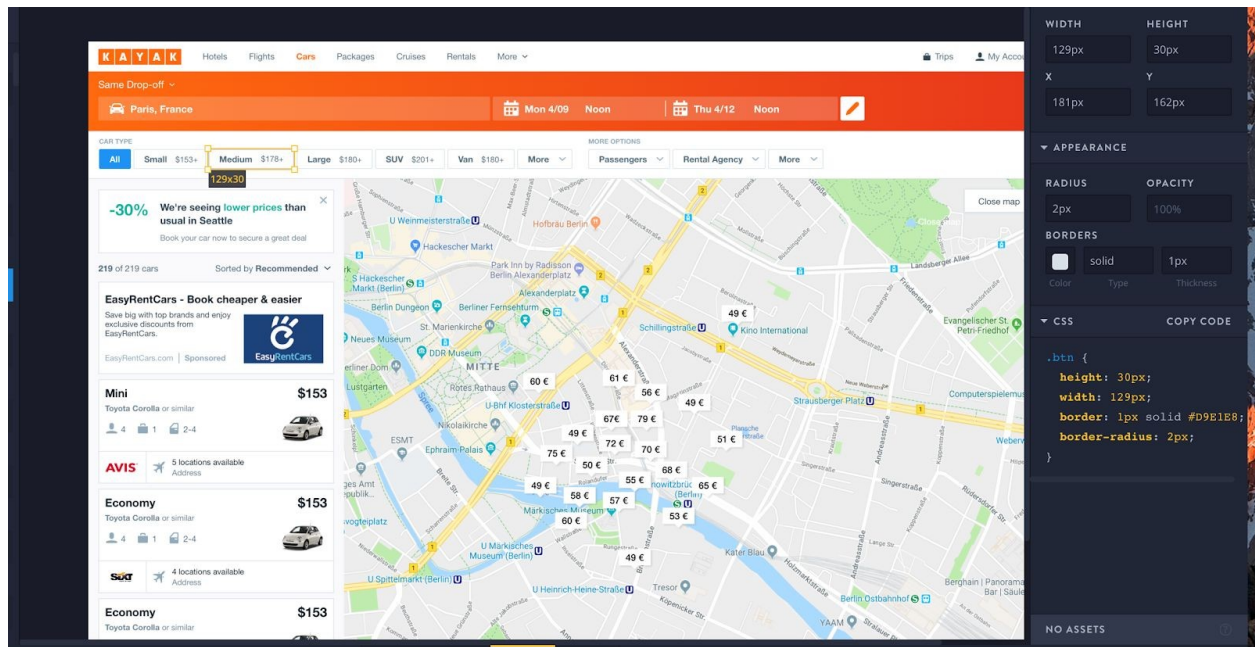
Layout to be implemented



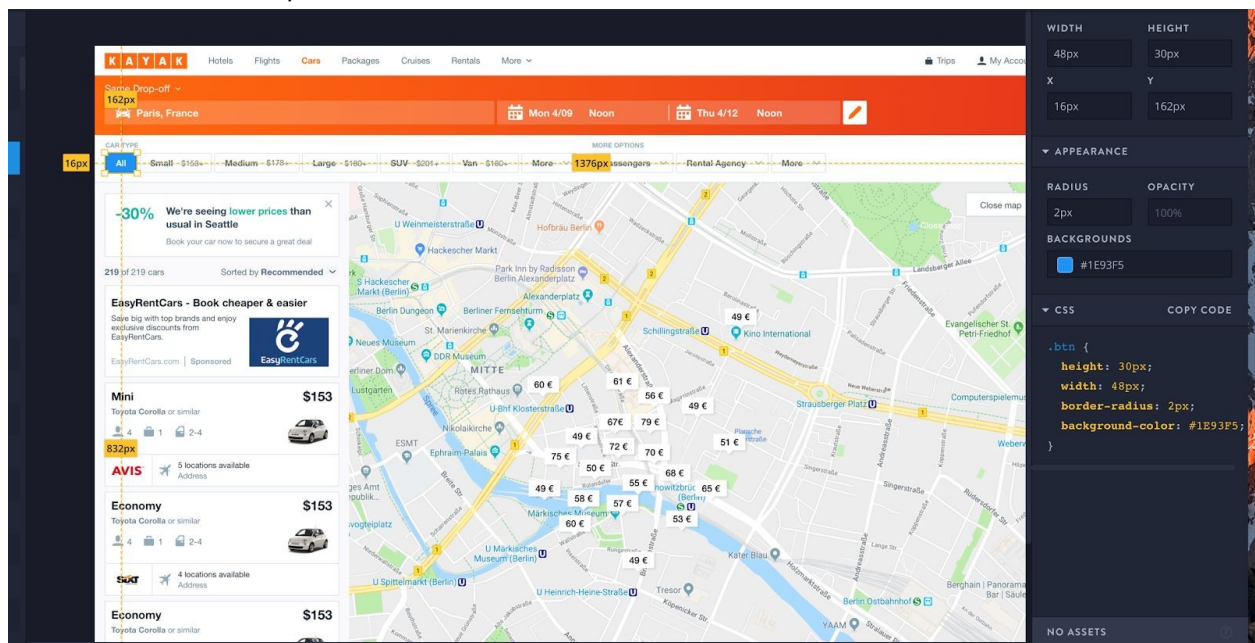
Other parts of the page that are visible in the mocs should not be implemented.

Mocks with specifications

Unselected filter with css spec:



Selected filter with css spec:



Price font:

The screenshot shows the KAYAK car rental search results for Paris, France. The map displays various car rental locations in Berlin with prices ranging from 49 € to 1146 €. The font 'Price font' is highlighted on the map. The right sidebar shows the font settings for 'Price font'.

Font settings for 'Price font':

- TYPEFACE: Helvetica Neue
- WEIGHT: normal
- STYLE: normal
- COLOR: #51697A
- ALIGNMENT: right
- SIZE: 12px
- SPACING: normal
- OPACITY: 100%

Category name font:

The screenshot shows the KAYAK car rental search results for Paris, France. The map displays various car rental locations in Berlin with prices ranging from 49 € to 1192 €. The font 'Category name font' is highlighted on the map. The right sidebar shows the font settings for 'Category name font'.

Font settings for 'Category name font':

- TYPEFACE: Helvetica Neue
- WEIGHT: bold
- STYLE: normal
- COLOR: #51697A
- ALIGNMENT: left
- SIZE: 13px
- SPACING: normal
- OPACITY: 100%

Good luck!