Frontend Test - Part 1

Purpose

This is a simple front-end code challenge created to serve two purposes:

- Show off your skills,

- Give us a better understanding of your skills.

The Task

The programming challenge exists in 2 parts:

- Part 1: Basic Requirements

- [Part 2: Extra Challenges](https://hackmd.io/u_sfOmt1S5uXieCqf-mFow)

API

You will have a fake API created by `miragejs` package, according to the following specifications:

- Method: `GET`

- URL: `/api/properties`

- Description:

To get all properties in the website.

- Response

- Data: all properteis

- Each property will include following fields

- id: unique id of the property

- state: State of the property in USA

- city: City of the property in USA

- type: The type of the property which including `Apartment`, `Single-family`, `Townhomes`, `Condo`.

- price: The monthly price for renting the house. the unit is USD.

Example of response:

```json
{
  "data": [
    {
      "id": 1,
      "city": "Attleboro",
      "state": "Georgia",
      "type": "Apartment",
      "price": 218
    },
    {
      "id": 2,
      "city": "Enterprise",
      "state": "Wyoming",
      "type": "Condo",
      "price": 696
    },
    {
      "id": 3,
      "city": "South Hill",
      "state": "Montana",
      "type": "Condo",
      "price": 1190
    }
    // …
  ]
}
```

PART 1: Basic Requirements

Technical Requirements

- Using `React.js`

- Libraries are not limited, but you will need to use at least one frontend library for style. For example.

- TypeScript `(recommended)`

- antd `(recommended)`

- tailwindcss

- stlyed-component

- material

- bootstrap

Feature Requirements

- Because the API may take seconds to finish, so when calling the API, please show the loading page to enhace the UX.

- You will need to make a report page

- filter all properties in `Georgia` state

- group by all `state` and `city`

- each row includes

- state

- city

- total count of the properties in this group

- average price of the properties in this group

Example

State	City	Houses	Avg. Price
Georgia	Atlanta	13	630
Georgia	Columbus	5	800