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**Propdo Frontend Home Assignment**

(Approximate time 1 day)

At Propdo, we strive to build interfaces that are simple and easy to use. As a Frontend Engineer, you are responsible for implementing how our users interact with our website.

Our frontend is coded in React using the following key packages – so please keep this in mind when completing the assignment:

* React with hooks (we don’t use classes)
  + useContext
* Material-UI
* react-router-dom
* react-mapbox-gl
* Typescript (Bonus)

Please complete the following exercises in a single React project.

**Exercise 1**

The goal of this exercise is to create a listings site. To help you achieve this, you have been supplied with dummy images as well as a json file (transactions.json) containing dummy real-estate listings to simulate the data you would receive from our backend. Within your solution, please complete the following:

* Create a page - /real-estate
* Load the json and present them in the best way you can think to – simulate an external API call
* Expected Functionality:
  1. Search box to search for the property by address
  2. Filter by number of rooms
  3. Sort listings by price

**Exercise 2**

This exercise focuses on your logical and functional coding with the goal of testing your abilities to work with the react-mapbox-gl package (Note you will need to sign up and create a free API token: <https://www.mapbox.com>)

Within your solution, please complete the following:

* Create a page - /map
* Create a map using mapbox-gl defaulting to show Israel
* Create two input boxes for GPS coordinates (latitude and longitude)
* Expected Functionality:
  1. Enter GPS into inputs – map must zoom to coordinates
  2. Click on map – coordinates must be shown in the GPS input box

**BONUS** – draw a circle of radius 100m around the GPS point

**In your response, please include a link to the GitHub Repository of your code as well as a link to your deployed website.**