OnSign TV Front End Programming Test

Your goal is to create a simple web application that allows users to view the temperature forecast for the next six hours at a given location.

This application can be developed using your preferred JS Framework or just plain and simple Javascript. React and Vue.js are our personal preference, but rest assured that you'll NOT be evaluated by choice of Framework. All code must be written exclusively in english. You don't have to add automated tests, but adding some comments and documentation would be nice.

We will be evaluating how you architect the solution, how you handle errors from both user input and external APIs, as well as how efficient your solution is.

If you want to add an external library or other type of dependency, please write some comments explaining why you believe it is necessary.

Don't worry about how this would be deployed, as long as we can run it somehow. A README file with instructions is appreciated.

Please, do not share the solution online or post this to a public repository.

We appreciate your effort and wouldn't want other candidates to benefit from it.

After the test complete, you can send your code to https://forms.gle/JAo57fCv58vXCcGM9

Requirements

1. Use the Google Geocoding API to get the latitude/longitude for a given user input, as well as the city name. Your application is expected to handle at least the following location options:
   - Get the current location from the browser, granted that the user gives permission;
   - Geographic coordinates (lat/lng);
   - City name and state;
   - Zip code.
2. Use the Open Weather OneCall API to get the weather forecast for a given latitude/longitude. The minimum forecast data expected from your app are:
   - City name;
   - Current (as in now) condition, temperature, feels like temperature and humidity;
   - Hourly (up to five hours) condition, temperature, feels like temperature and humidity.
3. Cache the weather forecast for a given coordinate for up to two hours. You can round the coordinates on three decimal places to increase cache ratio;
4. Make sure your application is responsive and works well on Desktops and Mobile environments.

Important: Each of the above mentioned **APIs are limited to 20 calls/min and 300 calls/day**, which shall be more than enough to complete the tests, given that the results shall be cached.

Required API Keys

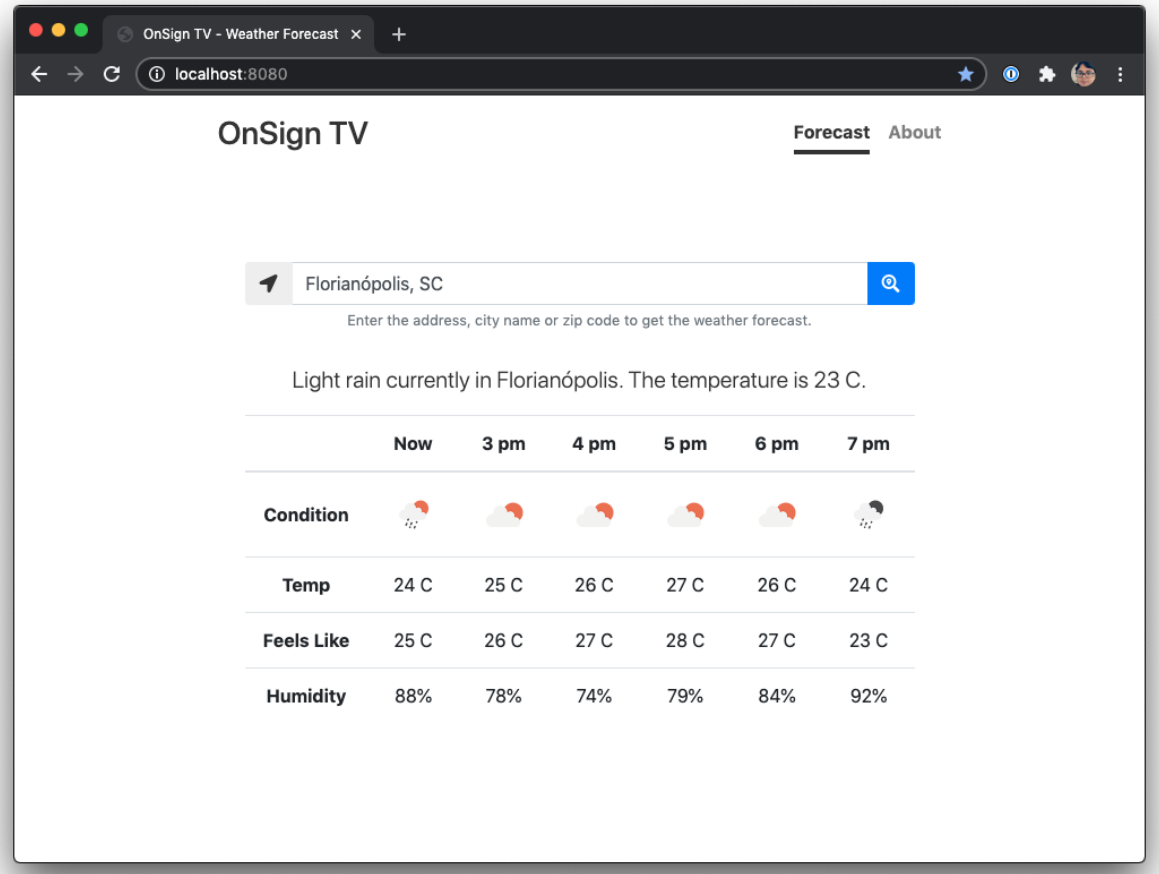
In your application please use the following API keys:

Google API Key: `AIzaSyD6rKc6URJVJv5GNgNydJxd19jitau6pg0`
Open Weather API Key: `99a93a4390907ebb53ea070c0768ecc0`

Suggested Page Layout

For simplicity you can base the UI on Bootstrap 4 or any other CSS framework.

We suggest a UI such as this one:



OnSign TV

Forecast About

Florianópolis, SC

Enter the address, city name or zip code to get the weather forecast.

Light rain currently in Florianópolis.
The temperature is 23 C.

	Now	3 pm	4 pr
Condition			
Temp	24 C	25 C	26 (
Feels Like	25 C	26 C	27 (
Humidity	88%	78%	74%