

### Basic:

- Clone the starter code from the following GitHub repository
  - <https://github.com/kriasoft/react-starter-kit>
- Make a runnable application
- Use React as the primary frontend technology
- Use an API to retrieve the weather data: recommended API (Appendix 1)
  - API: <https://open-meteo.com/en/docs#api-documentation>
- We provide a city (Appendix 2) list with related latitudes and longitudes.  
When a city outside the city list is searched,  
display a message "currently not support"

### Bonus:

- a debouncing mechanism to prevent excessive API requests when the user is typing in the search box
- Ability to handle errors, such as API errors
- Responsiveness
- Store the last searched city in local storage, so it is remembered on the page reload

## Appendix

### 1. weather API

example request:

<https://api.open-meteo.com/v1/forecast?latitude=52.52&longitude=13.41&>

[current\\_weather=true&hourly=temperature\\_2m,relativehumidity\\_2m,windspeed\\_10m](https://api.open-meteo.com/v1/forecast?latitude=52.52&longitude=13.41&current_weather=true&hourly=temperature_2m,relativehumidity_2m,windspeed_10m)

### 2. city list

```
[{"city":"Mount Vernon","lat":38.714,"lng":-77.1043,"country":"United States"},
{"city":"Union City","lat":33.5941,"lng":-84.5629,"country":"United States"},
{"city":"Waycross","lat":31.2108,"lng":-82.3579,"country":"United States"},
{"city":"Turtle Creek","lat":40.4085,"lng":-79.8214,"country":"United States"},
{"city":"Upper Dublin","lat":40.1502,"lng":-75.1813,"country":"United States"},
{"city":"Fruita","lat":39.1549,"lng":-108.7307,"country":"United States"},
{"city":"Oak Grove","lat":45.3409,"lng":-93.3264,"country":"United States"},
{"city":"Dale City","lat":38.6473,"lng":-77.3459,"country":"United States"},
{"city":"Kelso","lat":46.1236,"lng":-122.891,"country":"United States"},
{"city":"Kings Mountain","lat":35.2348,"lng":-81.3501,"country":"United States"},
{"city":"Williamson","lat":34.7082,"lng":-112.5342,"country":"United States"},
{"city":"Hobart","lat":47.412,"lng":-121.996,"country":"United States"},
{"city":"Greenville","lat":43.1797,"lng":-85.2533,"country":"United States"}]
```

```
{"city":"Hadley","lat":42.3556,"lng":-72.5692,"country":"United States"},  
{"city":"West Freehold","lat":40.2324,"lng":-74.2943,"country":"United States"},  
{"city":"Wynne","lat":35.2322,"lng":-90.7894,"country":"United States"},  
{"city":"Cleveland","lat":34.5971,"lng":-83.7621,"country":"United States"},  
{"city":"Bourbonnais","lat":41.183,"lng":-87.878,"country":"United States"},  
{"city":"Haddam","lat":41.4677,"lng":-72.5458,"country":"United States"},  
  {"city":"Hillsboro","lat":39.1668,"lng":-89.4735,"country":"United States"}]
```