

Report

For

Weather App

By

Name: Pallavi

Regd. No: 11705862

Section: KM012

Roll No: 41

GitHub Link: <https://github.com/PallaviKapila/Weather-App-Nodejs>

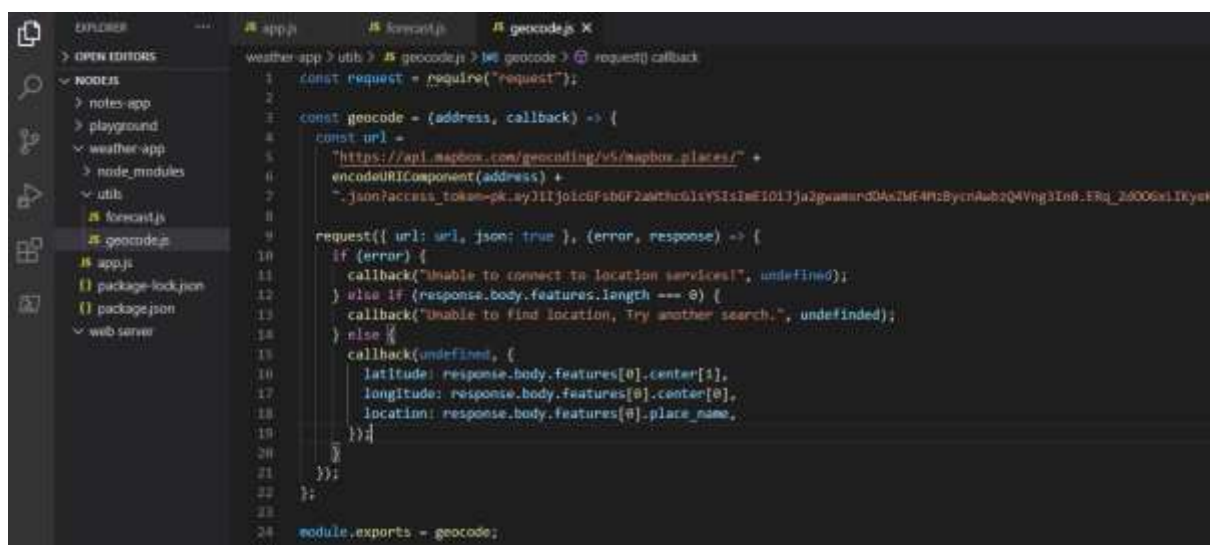


About:

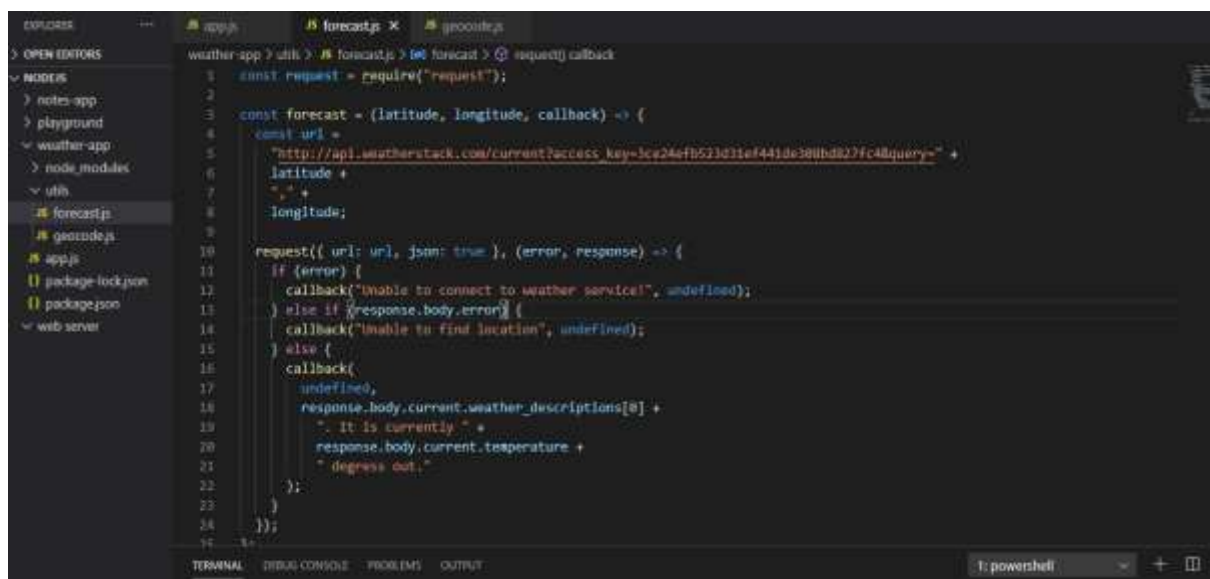
Weather App which is an Asynchronous Node.js file here to create this weather app I've used API i.e. "Weather Stack" which is an absolutely free and for Geocoding I've used "Map box" API and under web server I've connected my project with localhost and made it dynamic under web server I've styled this using HTML and CSS properties. Although, it looks simple but here in this project it included many functionalities such as ES6, call back function, arrow function, Express, serving through JSON, Dynamic pages with Templates, Accessing API from the Browser then HTTP requests and many more.

This project really helped me brushing my various concepts and after completion of this project I feel more confident in Node.js

Here are the various snapshots of my project:



```
1 const request = require("request");
2
3 const geocode = (address, callback) => {
4   const url =
5     "https://api.mapbox.com/geocoding/v5/mapbox.places/" +
6     encodeURIComponent(address) +
7     ".json?access_token=pk.eyJ1IjoicGFsb0F2aWthc6l5YSIsImE1OiI3a2gwamR0aXZlM4P1BycnAub2Q4Vng3In8.ERq_2d00Gx1IKYst
8
9   request({ url: url, json: true }, (error, response) => {
10     if (error) {
11       callback("Unable to connect to location services!", undefined);
12     } else if (response.body.features.length === 0) {
13       callback("Unable to find location, Try another search.", undefined);
14     } else {
15       callback(undefined, {
16         latitude: response.body.features[0].center[1],
17         longitude: response.body.features[0].center[0],
18         location: response.body.features[0].place_name,
19       });
20     }
21   });
22 };
23
24 module.exports = geocode;
```

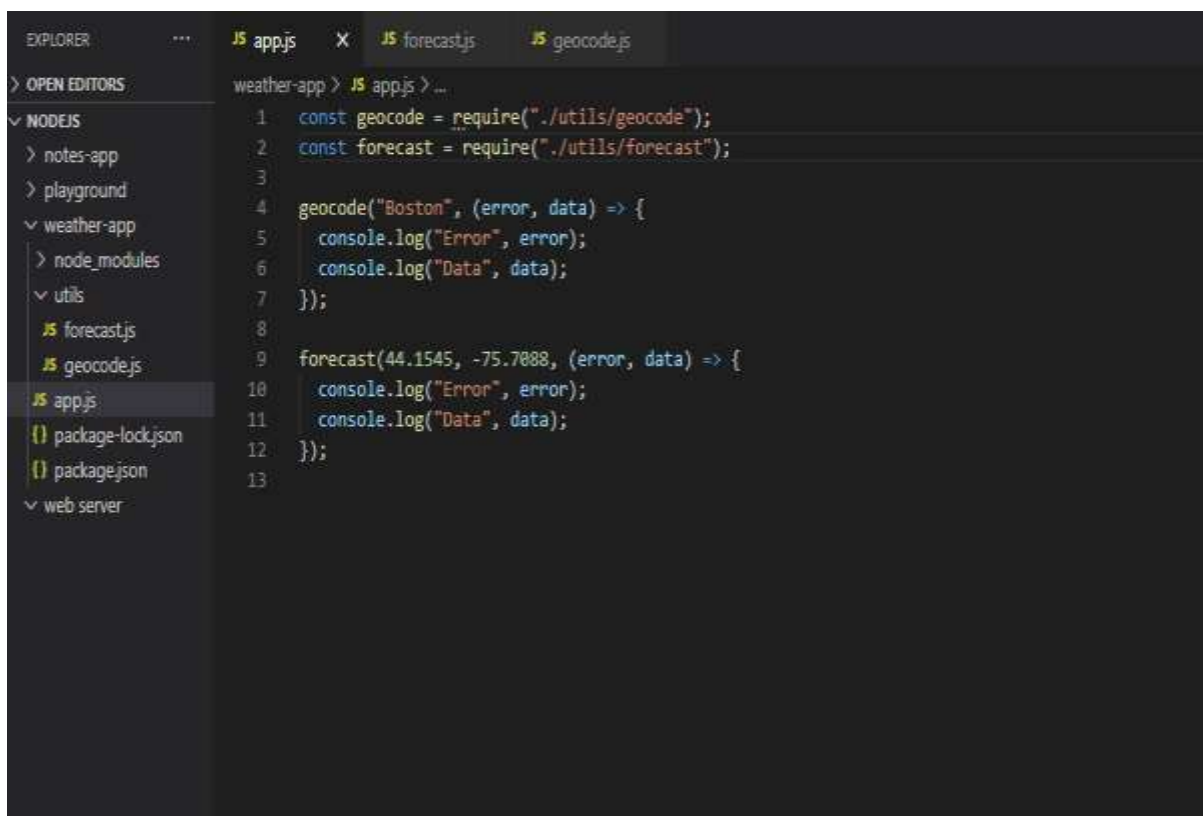


```
1 const request = require("request");
2
3 const forecast = (latitude, longitude, callback) => {
4   const url =
5     "http://api.weatherstack.com/current?access_key=3c24efb523d31ef441de380bbd827fc4&query=" +
6     latitude +
7     "," +
8     longitude;
9
10   request({ url: url, json: true }, (error, response) => {
11     if (error) {
12       callback("Unable to connect to weather service!", undefined);
13     } else if (response.body.error) {
14       callback("Unable to find location", undefined);
15     } else {
16       callback(
17         undefined,
18         response.body.current.weather_descriptions[0] +
19         ". It is currently " +
20         response.body.current.temperature +
21         " degrees out."
22       );
23     }
24   });
25 }
```

```

PS C:\Users\User\Desktop\nodejs> cd weather-app
PS C:\Users\User\Desktop\nodejs\weather-app> node app.js
Error undefined
Data {
  latitude: 42.3605,
  longitude: -71.0596,
  location: 'Boston, Massachusetts, United States'
}
Error undefined
Data Heavy snow. It is currently -3 degress out.
PS C:\Users\User\Desktop\nodejs\weather-app> 

```



The screenshot shows the Visual Studio Code interface. On the left, the Explorer sidebar is open, showing a project structure with folders like 'notes-app', 'playground', 'weather-app', 'node_modules', 'utils', and 'web server'. The 'weather-app' folder is expanded, showing files 'forecast.js', 'geocode.js', and 'app.js'. The 'app.js' file is selected and its content is displayed in the main editor area. The code in 'app.js' imports 'geocode' and 'forecast' functions from local utility files and calls them with 'Boston' and specific coordinates. It uses arrow functions and includes console.log statements for both error and data handling.

```

EXPLORER
...
JS app.js x JS forecast.js JS geocode.js
> OPEN EDITORS
weather-app > JS app.js > ...
1  const geocode = require("../utils/geocode");
2  const forecast = require("../utils/forecast");
3
4  geocode("Boston", (error, data) => {
5    console.log("Error", error);
6    console.log("Data", data);
7  });
8
9  forecast(44.1545, -75.7088, (error, data) => {
10   console.log("Error", error);
11   console.log("Data", data);
12 });
13

```

Weather

[Weather](#) [About](#) [Help](#)

Use this site to get your weather!

Philadelphia, Pennsylvania 19147, United States

Mostly cloudy until evening and breezy throughout the day. It is currently 34.96 degrees out.
There is a 0% chance of rain.

Weather

[Weather](#) [About](#) [Help](#)

Use this site to get your weather!

Help

[Weather](#) [About](#) [Help](#)

This is some helpful text.

Weather

[Weather](#) [About](#) [Help](#)

Use this site to get your weather!

Weather

[Weather](#) [About](#) [Help](#)

Use this site to get your weather!