

Server

```
//set up for path
const express = require('express')
const app = express()
const port = 3000
const path = require("path")
const cors = require("cors")
let publicPath = path.resolve(__dirname, "public")

app.use(cors())
app.use(express.static(publicPath))
app.listen(port, () => console.log(`Seeking out and listening on... ${port}!`))

//set up the API call
const fetch = require("node-fetch")
const { json } = require('express')
const API_KEY = "3f3cf662c8e9191033ff4958995ef4db"
//API_KEY = process.env.API_KEY;
//debugging
//console.log(API_KEY)

//Pollution API Call
app.get('/air_pollution/:lon/:lat', pollutionData)
async function pollutionData(req, res) {
  let lon = req.params.lon
  let lat = req.params.lat

  fetch(`http://api.openweathermap.org/data/2.5/air_pollution/forecast?lat=${lat}&lon=${lon}&appid=${API_KEY}`)
    .then(res => res.json())
    .then(json => {
      let result = json
      res.send(result)
    })
}

//Collective Weather API Call
app.get('/forecast/:city', weatherData)
async function weatherData(req, res) {
  let city = req.params.city

  fetch(`http://api.openweathermap.org/data/2.5/forecast?q=${city}&appid=${API_KEY}&units=metric`)
    .then(res => res.json())
    .then(json => {
      //debug to check data call
      //console.log(json)
    })
}
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    let result = json
    res.send(result)
  })
}

```

Client

```

<link rel="stylesheet" href="style.css">
<div id="app">
  <h1>Hey there! 😊 </h1>
  <h2>Insert the location you would like to find the weather out about!</h2>
  <div>The output will be the average of the following 4 day forecast with some advice on
  how to prepare for the expected weather! 💡 </div>
  <br>
  <input v-model="location">
  <br>
  <button v-on:click="httpsGet">Get Weather</button>
  <br>
  <br>
  <br>
  <div class="table">
    <table border="5">
      <thead>
        <tr>
          <th>Temperature (°C)</th>
          <th>Wind Speed (m/s)</th>
          <th>Rainfall (mm)</th>
        </tr>
      </thead>
      <tbody>
        <tr>
          <td>{{ tempResult }}</td>
          <td>{{ windResult }}</td>
          <td>{{ rainResult }}</td>
        </tr>
      </tbody>
    </table>
    <p>{{ umbrella }}</p>
    <p>{{ temp4packing }}</p>
    <p>{{ PM2_5 }}</p>
  </div>
</div>
<script type="module">
  import { createApp } from "https://unpkg.com/vue@3/dist/vue.esm-browser.js"
  createApp({
    data() {
      return {

```

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        location: null,
        umbrella: null,
        temp4packing: null,
        tempResult: null,
        rainResult: null,
        windResult: null,
        PM2_5: null,
    }
},
methods: {
    httpsGet(clicked) {
        if (clicked) {
            //call
            fetch(`/forecast/${this.location}`)
            .then((response) => response.json())
            .then((weatherData) => {

                //pollution call, location co-ords fixed to two decimals
                var lon = weatherData["city"]["coord"]["lon"].toFixed(2);
                var lat = weatherData["city"]["coord"]["lat"].toFixed(2);

                fetch(`/air_pollution/${lon}/${lat}`)
                .then((response) => response.json())
                .then((pollutionData) => {

                    // traverse through and find if hum>10
                    var pollutionBoolean = false;
                    for (var count3 = 0; count3 < pollutionData["list"].length; count3++) {
                        if (pollutionData["list"][count3]["components"]["pm2_5"] >= 10) {
                            pollutionBoolean = true;
                        }
                    }
                    //state result
                    if (pollutionBoolean == true) {
                        this.PM2_5 = `It appears that in ${weatherData["city"]["name"]}, the air is
polluted. PM2_5 exceeds a level of 10. For your safety wear a face covering.`;
                    } else {
                        this.PM2_5 = `It appears that in ${weatherData["city"]["name"]} the air is
not polluted. PM2_5 is below the level of 10. It is not necessary to wear a face covering.`
                    }

                });

            });

            //create values for data
            var temp = 0, rain = 0, wind = 0;
            var umbrellaBoolean = false;

```

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for (var count = 0; count < 32; count++) {
  if ("rain" in weatherData["list"][count]) {
    umbrellaBoolean = true;
    rain += weatherData["list"][count]["rain"]["3h"];
  }
  temp += weatherData["list"][count]["main"]["temp"];
  wind += weatherData["list"][count]["wind"]["speed"];
}
if (umbrellaBoolean = true) {
  this.umbrella = "Looks like rain, you should bring an umbrella!";
} else {
  this.umbrella = "No rain forecasted!";
}

var forecastArr = [];
var count2 = 0;
while (forecastArr.length !== 3 && count2 < 32) {
  var locTemp = weatherData["list"][count2]["main"]["temp"];
  if (locTemp < 12 ) {
    forecastArr.push("Cold 🥶");
  }
  else if (locTemp >= 12 && locTemp <= 25) {
    forecastArr.push("Mild 😊");
  }
  else {
    forecastArr.push("Hot 🥵🔥");
  }
  count2++;
}

// final results, decimal points adjustment and hourly adjustment
this.temp4packing = `It is forecasted to be
${forecastArr[0].charAt(0).toUpperCase() + forecastArr[0].slice(1)}, pack the correct
clothes!`;

this.tempResult = (temp/32).toFixed(1);
this.rainResult = (rain/32).toFixed(1);
this.windResult = (wind/32).toFixed(1);

});
}
}
}).mount("#app")
</script>

```