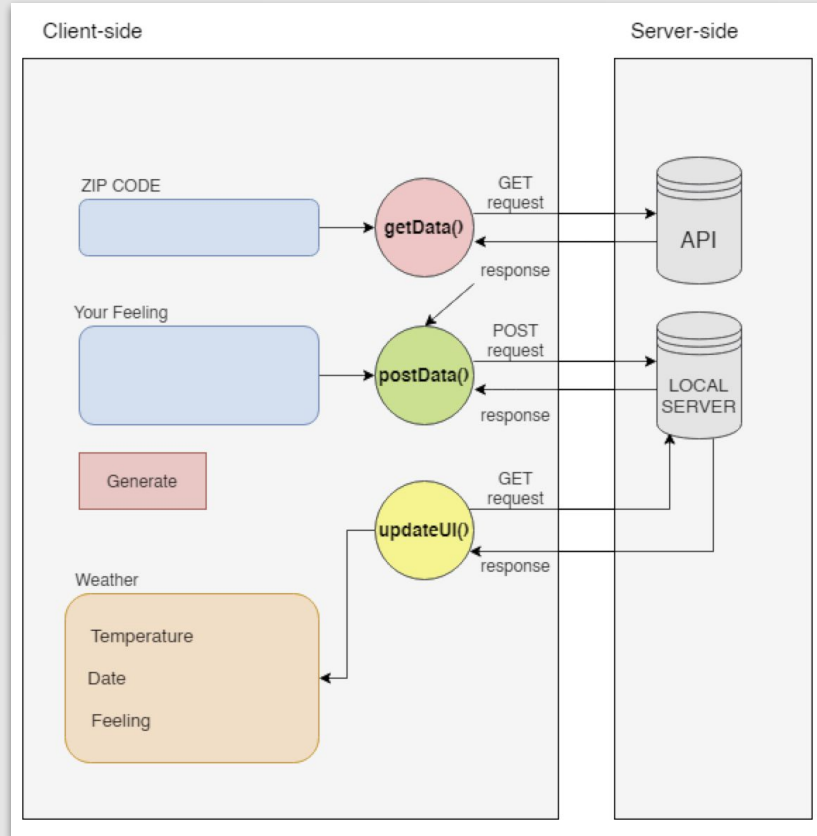


# Weather App

Get Temperature Data From Api Using  
Zip Code





# Weather APP



👉 Subscribe at OpenWeatherMap API. After subscription you will get API key. Store it in a constant in app.js file `const apiKey`

Get the 👉 URL you will use to fetch data from API with zip code. It should be something like that:

**`api.openweathermap.org/data/2.5/weather?zip={zip code},{country code}&appid={API key}`**

Delete the `{country code}` part from the URL. If no country code in URL, the API works for the USA by default, and that's fine. 👍

You will replace the **`{zip code}`** and **`{API key}`** dynamically in your code after that.

# Tip 1



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## Tip 2

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In Terminal (Be sure to be at the folder where server.js file is located)

Install dependencies (in one line 😊)

***npm install express body-parser cors***



In server.js file

```
Require dependencies const express = require('express');  
const bodyParser = require('body-parser'); const cors =  
require('cors');
```

```
Start an instance of express const app = express();
```

```
Configure express to use cors app.use(cors());
```

```
Declare a port and give any 4 digits number (not used by  
another application at the same time). const port = 8888;
```

```
Setup the server and make it listen to the port  
app.listen(port, () => {console.log("server is running and  
listening to port ${port} ");});
```

Others configurations are ready-made for you in the  
downloaded file.

# Tip 3



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In app.js file

Use click event listener on the Generate Button

```
btn.addEventListener('click',  
  handleGenerateBtnClick);
```

Inside *handleGenerateBtnClick* function create an if condition to check if user enters a value in the zip code text input or not *if (!zipCode.value) {} else {}*

If no value, alert the user to enter a zip code *alert('Please, enter a zip code');*

If there is a value, you should start calling our 3 functions and chaining them using *.then()* method. Complete the tips to know how.

# Tip 4



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GetData function (In app.js file)

Declare getData async function

```
const getData = async () => {}
```

- Inside this function use *await fetch(url)* to get temperature data from OpenWeatherMap API using the url you get in TIP #1. Replace {zip code} and {API key} with *zipCode.value* and *apiKey* variables respectively. Store the returned value in a constant. *const request = await fetch(...*
- Then start a *try {} catch {}* blocks. Inside *try {}* convert the data stored in request constant from json format to javascript using *await request.json()*; and return the value.
- Inside *catch (error) {}* handle the error by *console.log(error)*;

# Tip 5



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postData function (In app.js file)

- Declare postData async function with a default parameters `url = ""`, and `data = {}`  
`const postData = async (url = "", data = {}) {}`
- Inside this function use  
`await fetch(url, {  
 "method": "POST",  
 "credentials": "same-origin",  
 headers: {"Content-Type": "application/json"},  
 body: JSON.stringify(data)  
});`
- After that start a try {} catch {} blocks. Inside try {} just return;  
Inside `catch (error) {}` handle the error by `console.log(error);`

# Tip 6





In server.js file

- Use express post method to post data to the server endpoint object *projectData*.  

```
app.post('/addData', (req, res) => {  
  projectData.temp = req.body.temp;  
  projectData.date = req.body.date;  
  projectData.userResponse = req.body.feelings;  
})
```
- Be sure that the url used in post method is the same like the one used when calling postData function mentioned in TIP #6

# Tip 7



## Tip 8

updateUI function (in app.js file)

- Declare updateUI async function  
*const updateUI = async () => {}*
- Inside this function use *await fetch('/all')*; to get the data from the server.
- Then start a try {} catch {} blocks. Inside *try {}* convert the data stored in request constant from json format to javascript using *await request.json()*;
- Then use the returned data to update the UI HTML elements via *innerHTML* property.

In server.js file

- Use express get method to send data from server endPoint to browser.

```
app.get('/all', (req, res) => {  
  
  res.send(projectData);  
  
})
```

- Be sure that the url used in get method is the same like the one used in updateUI function fetch method mentioned in TIP #8

# Tip 9



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In app.js file

- Now return back to TIP #4 and in the else block of the if condition start calling our 3 functions chained together via .then() method
- Take care that .then() method takes a callback function s an argument and inside this function you can call one of our functions

```
getData.then(data => postData("/", {  
  temp: data.main.temp,  
  date: newDate,  
  feelings: feelings.value,  
}))  
.Then (() => updateUI() )
```

# Tip 10