



A Internship Project

Report On

# WEATHER APP

Submitted by,

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## INTRODUCTION

This is my portfolio project which I demonstrate with my abilities in building a completely responsive front-end project Website name as “Weather App” using Rapid Api Client Live Server and its Online Websites And With My programming Skills such as HTML5, CSS3, Bootstrap, JavaScript.

### **Required Software Components :**

Application Tool : Visual Studio Code

Extension : Rapid Api Client Server , Live Server.

### **Steps For Project :**

1. Installation of V.S.Code
2. Installation of Rapid Api Client Servers Extension in V.S.Code and Live Server Extension
3. Create HTML File i.e Index.html
4. Add Bootstrap in Index.html file using Bootstrap Website.
5. Create JavaScript File i.e script.js
6. Put Api-Ninjas Free Weather API JavaScript Fetch Data in Our JavaScript script.js file using Rapid Api's Online Website
7. Design Weather App's Overall Website by Adding Headers , Body , Footer.

## **Rapid API Client for Visual Studio Code**

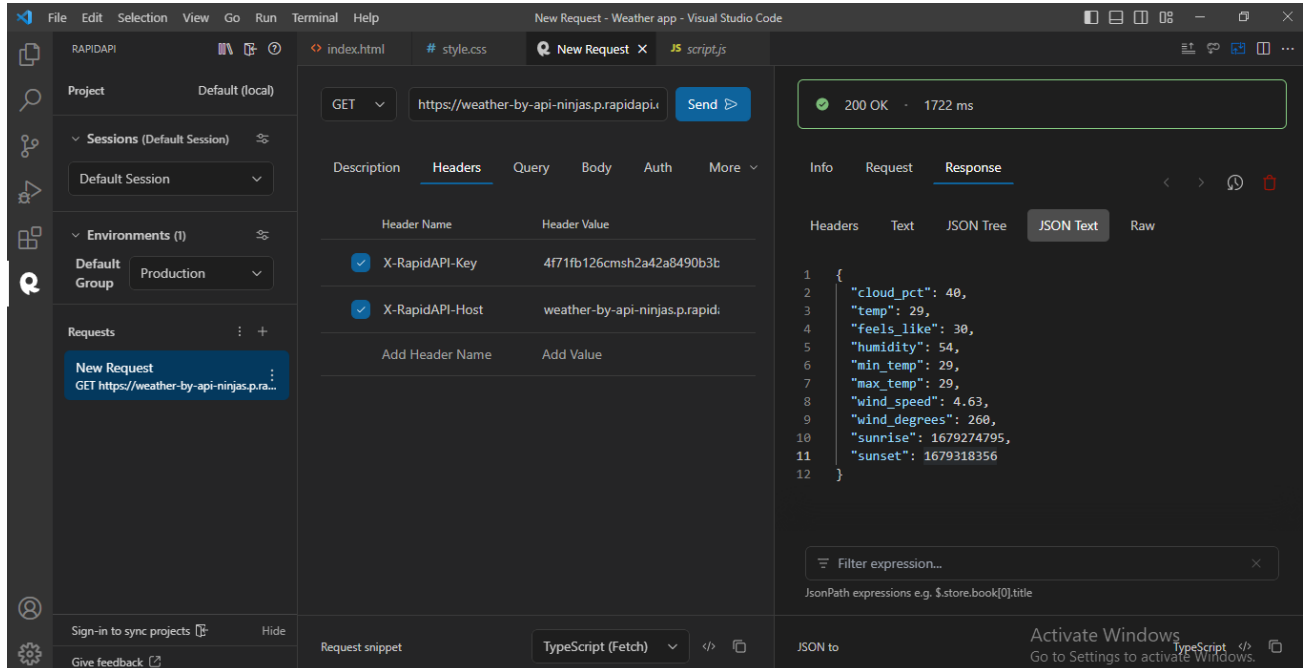
RapidAPI Client is a full-featured HTTP client that lets you test and describes the APIs you build or consume. Designed to work with your VS Code themes, RapidAPI Client makes composing requests, inspecting responses, generating code, and types for application development simple and intuitive.

Rapid API Client is a full-featured HTTP client that lets you test and describes the APIs you build or consume. Designed to work with your VS Code themes, Rapid API Client makes composing requests, inspecting server responses, generating client code for API calls, and typesafe objects for application development simple and intuitive. Our client provides a great alternative to: Postman, Rest Client, and other HTTP clients.

## **Why Rapid API Client for Visual Studio Code?**

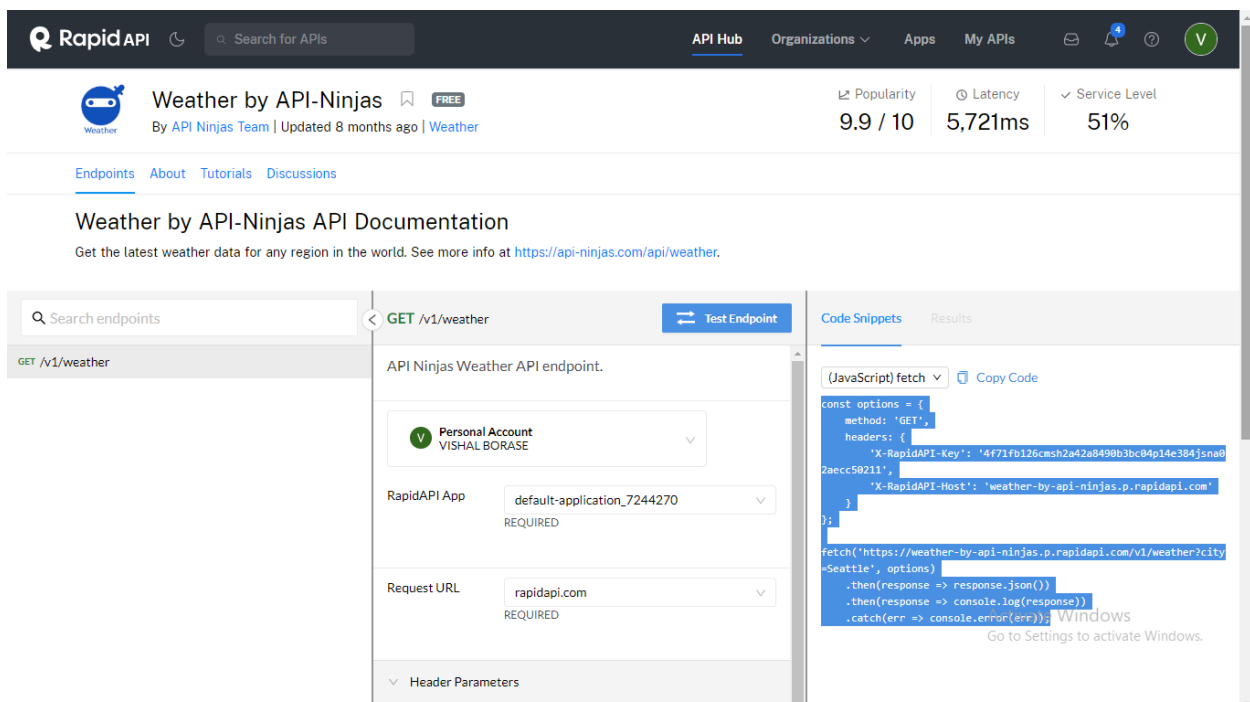
The Rapid API Client for VS Code brings API testing to your favorite code editor, so you can test APIs no matter where you are in the development cycle. You can compose requests, inspect server responses, generate client code, and export API definitions from our interface without ever switching context to another application. Beyond being a fantastic stand-alone client in VS Code, this extension establishes a bidirectional link between VS Code and Rapid API so that users with an existing RapidAPI.com or Paw user account can log in and sync existing projects automatically.

## Rapid API Window in Visual Studio Code :



## Weather by API-Ninjas

The API Ninjas Weather API provides the latest weather information for any city or geographic location in the world.



## **Rapid Api Client Server Data :**

### **Input Data :**

**Link :** <https://weather-by-api-ninjas.p.rapidapi.com/v1/weather?city=>

**'X-RapidAPI-Key':** '4f71fb126cmsh2a42a8490b3bc04p14e384jsna02aecc50211',

**'X-RapidAPI-Host':** 'weather-by-api-ninjas.p.rapidapi.com'

### **Output Data Of Weather : Ex. City : Mumbai**

#### **Weather For Mumbai :-**

```
{  
  "cloud_pct": 40,  
  "temp": 29,  
  "feels_like": 30,  
  "humidity": 54,  
  "min_temp": 29,  
  "max_temp": 29,  
  "wind_speed": 4.63,  
  "wind_degrees": 260,  
  "sunrise": 1679274795,  
  "sunset": 1679318356  
}
```

# Programming Language and Technology :

## HTML :

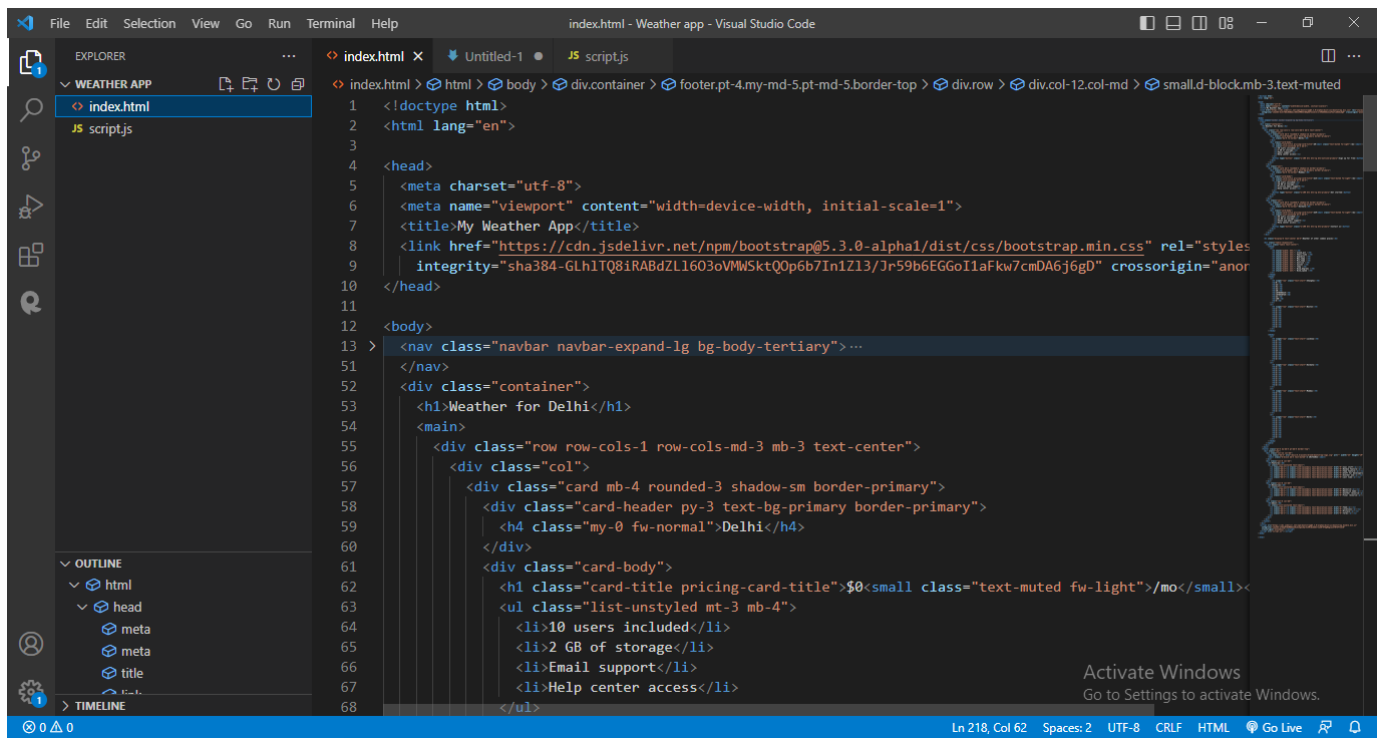
HTML is an initialism for "Hyper Text Markup Language". It is the language of the web. It is used to create websites.

It is used to define a page layout, meaning it is a barebone page structure. HTML is used for making pages of the website also called webpages that we see on the internet. It consists of a set of tags. This set of tags is written in HTML Document.

".html" or ".htm" is the extension. There are so many versions of HTML but HTML5 is the latest version.

## HTML CODE OF WEATHER APP :

### Index.html



```
1 <!doctype html>
2 <html lang="en">
3
4 <head>
5   <meta charset="utf-8">
6   <meta name="viewport" content="width=device-width, initial-scale=1">
7   <title>My Weather App</title>
8   <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-GLh1TQ8iRABdZLL1603oVMWsktQOp6b7In1Z13/Jr59b6EGGoI1aFkw7cmDA6j6gD" crossorigin="anonymous">
9 </head>
10
11 <body>
12
13 <nav class="navbar navbar-expand-lg bg-body-tertiary">...
14 </nav>
15 <div class="container">
16   <h1>Weather for Delhi</h1>
17   <main>
18     <div class="row row-cols-1 row-cols-md-3 mb-3 text-center">
19       <div class="col">
20         <div class="card mb-4 rounded-3 shadow-sm border-primary">
21           <div class="card-header py-3 text-bg-primary border-primary">
22             <h4 class="my-0 fw-normal">Delhi</h4>
23           </div>
24           <div class="card-body">
25             <h1 class="card-title pricing-card-title">{0}<small class="text-muted fw-light">/mo</small><
26             <ul class="list-unstyled mt-3 mb-4">
27               <li>10 users included</li>
28               <li>2 GB of storage</li>
29               <li>Email support</li>
30               <li>Help center access</li>
31             </ul>
32           </div>
33         </div>
34       </div>
35     </div>
36   </main>
37 </div>
```

## Added Bootstrap into index.html :

### Example Of Bootstrap :

Bootstrap's CSS and JS. Place the <link> tag in the <head> for our CSS, and the <script> tag for our JavaScript bundle (including Popper for positioning dropdowns, poppers, and tooltips) before the closing </body>.

```
<!doctype html>

<html lang="en">

  <head>

    <meta charset="utf-8">

    <meta name="viewport" content="width=device-width, initial-scale=1">

    <title>Bootstrap demo</title>

    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-GLhITQ8iRABdZLL6O3oVMWSktQOp6b7In1Zl3/Jr59b6EGGoI1aFkw7cmDA6j6gD" crossorigin="anonymous">

  </head>

  <body>

    <h1>Hello, world!</h1>

    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/js/bootstrap.bundle.min.js" integrity="sha384-w76AqPfDkMBDXo30jS1Sgez6pr3x5MlIQ1ZAGC+nuZB+EYdgRZgiwxhTBTkF7CXvN" crossorigin="anonymous"></script>

  </body>

</html>
```

## JAVASCRIPT :

JavaScript is the Programming Language for the Web. JavaScript can update and change both HTML and CSS. JavaScript can calculate, manipulate and validate data.

Or JavaScript is a scripting language that enables you to create dynamically updating content, control multimedia, animate images, and pretty much everything else.

```
const options = {
  method: 'GET',
  headers: {
    'X-RapidAPI-Key': '4f71fb126cmsh2a42a8490b3bc04p14e384jsna02aecc50211',
    'X-RapidAPI-Host': 'weather-by-api-ninjas.p.rapidapi.com'
  }
};

const getWeather= (city)=>{
  cityName.innerHTML = city
  fetch('https://weather-by-api-ninjas.p.rapidapi.com/v1/weather?city=' + city,
  options)
    .then(response => response.json())
    .then((response) => {
      console.log(response)
      cloud_pct.innerHTML = response.cloud_pct
      feels_like.innerHTML = response.feels_like
      humidity.innerHTML = response.humidity
      max_temp.innerHTML = response.max_temp
      min_temp.innerHTML = response.min_temp
      sunrise.innerHTML = response.sunrise
      sunset.innerHTML = response.sunset
      temp.innerHTML = response.temp
    })
}
```



```

        wind_speed.innerHTML = response.wind_speed
        wind_degrees.innerHTML = response.wind_degrees
    })
    .catch(err => console.error(err));
}

```

**// Set Default Location When you going to website its shows by Default these Location Ex. Mumbai**

```

submit.addEventListener("click", (e)=>{
    e.preventDefault()
    getWeather(city.value)
})
getWeather("Mumbai")

```

## Script.js

```

1  const options = {
2    method: 'GET',
3    headers: {
4      'X-RapidAPI-Key': '4f71fb126cmsh2a42a8490b3bc04p14e384jsna02aecc50211',
5      'X-RapidAPI-Host': 'weather-by-api-ninjas.p.rapidapi.com'
6    }
7  };
8  const getWeather= (city)=>{
9    cityName.innerHTML = city
10   fetch('https://weather-by-api-ninjas.p.rapidapi.com/v1/weather?city=' + city, options)
11   .then(response => response.json())
12   .then((response) => {
13
14     console.log(response)
15     cloud_pct.innerHTML = response.cloud_pct
16     feels_like.innerHTML = response.feels_like
17     humidity.innerHTML = response.humidity
18     max_temp.innerHTML = response.max_temp
19     min_temp.innerHTML = response.min_temp
20     sunrise.innerHTML = response.sunrise
21     sunset.innerHTML = response.sunset
22     temp.innerHTML = response.temp
23     wind_speed.innerHTML = response.wind_speed
24     wind_degrees.innerHTML = response.wind_degrees
25   })
26   .catch(err => console.error(err));
27 }
28
29 submit.addEventListener("click", (e)=>{
30   e.preventDefault()
31   getWeather(city.value)

```

## WEATHER APP WEBSITE OUTPUT :

The screenshot shows a web browser displaying the 'Weather App' website. The page title is 'Weather for Mumbai'. It features three main weather cards: Humidity Info (51%, Cloud Pct is 20, Feels like is 31), Temperatures (30°C, Min Temperature is 30°C, Max Temperature is 30°C, Sunrise Time is 1679447492), and Wind Info (6.17 km/hr, Wind Degrees is 270, Sunset Time is 1679491185). Below these is a table titled 'Weather of other common places' with columns: Cloud\_pct, Feels\_like, Humidity, Max\_temp, Min\_temp, Sunrise, Sunset, Temp, Wind\_degrees, and Wind\_speed. The table lists data for Shanghai, Boston, Lucknow, Kolkata, Mumbai, and Delhi. At the bottom, there are sections for Features, Resources, and About.

	Cloud_pct	Feels_like	Humidity	Max_temp	Min_temp	Sunrise	Sunset	Temp	Wind_degrees	Wind_speed
Shanghai	0	22	51	22	20	1678486214	1678528725	22	160	5
Boston	20	21	51	22	20	1578486214	1678528725	22	170	4
Lucknow	11	2	51	22	20	162140001	160725002	22	110	5
Kolkata	10	22	51	22	20	1678486214	1678528725	22	160	5
Mumbai	30	22	51	22	20	1678486214	1678528725	22	160	5
Delhi	20	21	51	22	20	1578486214	1678528725	22	170	4

## Lets Search Another Locations Weather : Ex. Bangalore

- Put in Search Bar : Bangalore

The screenshot shows the same 'Weather App' website, but with 'Bangalore' entered in the search bar. The page title is 'Weather for Bangalore'. The weather cards show: Humidity Info (34%, Cloud Pct is 20, Feels like is 30), Temperatures (31°C, Min Temperature is 30°C, Max Temperature is 31°C, Sunrise Time is 1679446369), and Wind Info (1.54 km/hr, Wind Degrees is 230, Sunset Time is 1679490025). The table 'Weather of other common places' remains the same as in the previous screenshot.

	Cloud_pct	Feels_like	Humidity	Max_temp	Min_temp	Sunrise	Sunset	Temp	Wind_degrees	Wind_speed
Shanghai	0	22	51	22	20	1678486214	1678528725	22	160	5
Boston	20	21	51	22	20	1578486214	1678528725	22	170	4
Lucknow	11	2	51	22	20	162140001	160725002	22	110	5
Kolkata	10	22	51	22	20	1678486214	1678528725	22	160	5
Mumbai	30	22	51	22	20	1678486214	1678528725	22	160	5
Delhi	20	21	51	22	20	1578486214	1678528725	22	170	4

Thank You ..