

WD – MAJOR – PROJECT

Name: Kalyani Pothuri

Domain: Web Development

Batch: January

Source Code (Github Link):

<https://github.com/Kalyanipotturu/WeatherForeCastApplication>

Description About Website

This is a Weather forecast web application made with HTML, CSS, JavaScript and Weather API. This website shows the current weather information and another 6 days weather information of the place we want. The default location of weather is Delhi. We can search our place by entering the city name of our place in the search box. If the place found, it shows the weather information otherwise it shows the default location weather Information.

Website Look



SOURCE CODE

1. Index.html

```

1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4     <meta charset="UTF-8">
5     <meta http-equiv="X-UA-Compatible" content="IE=edge">
6     <meta name="viewport" content="width=device-width, initial-scale=1.0">
7     <title>Wheather App</title>
8     <link rel="stylesheet" href="./index.css">
9     <link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.15.4/css/all.css" integrity="sha384-DyZ88mC6Up2u
10 </head>
11 <body>
12     <h3>Weather Forecast </h3>
13     <div id="mainContainer">
14         <div id="right">
15             <div id="rightOne">
16                 <div id="loc">
17                     <i id="log" class="fas fa-map-marker-alt"></i>
18                     <p id="cityName"></p>
19                 </div>
20                 <div>
21                     <i class="fas fa-cloud-sun-rain"></i>
22                 </div>
23                 <div id="sel">
24                     <span id="temp">29</span>&#176;C
25                 </div>
26                 <div id="Rightdate" class="Rightdate"></div>
27
28             </div><br><br>
29             <div id="rightTop">
30                 <div id="first">Humidity &nbsp; :&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<span id="humidity">34</span></div>
31                 <div>Pressure &nbsp; :&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<span id="pressure">1010</span></div>
32                 <div>Wind Speed &nbsp; :&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<span id="wind">4.16</span></div><br>
33                 <div id="time" class="time">

```

```
34         <span id="ampm"></span>
35     </div>
36     <div id="date" class="date"></div>
37 </div>
38 </div>
39 <div id="left">
40     <input type="text" id="city" placeholder="Enter City to know Wheather">
41     <button id="Search" onclick="getWeather()">Search</button>
42     <br>
43     <br>
44
45     <div id="days">
46
47         <div>
48             <p>Sun</p>
49             <i class="fas fa-cloud-sun-rain"></i>
50             <div>Max-33</div>
51             <div>Min-23</div>
52         </div>
53
54         <div>
55             <p>Mon</p>
56             <i class="fas fa-bolt"></i>
57             <div>Max-34</div>
58             <div>Min-23</div>
59         </div>
60
61         <div>
62             <p>Tue</p>
63             <i class="fas fa-cloud-moon"></i>
64             <div>Max-29</div>
65             <div>Min-23</div>
66         </div>
67
```

*C:\Users\LENOVO\Documents
Application\index.html - Not

```

68 <div>
69 <p>Wed</p>
70 <i class="fas fa-cloud"></i>
71 <div>Max-36&#176;C</div>
72 <div>Min-25&#176;C</div>
73 </div>
74 <div>
75 <p>Thur</p>
76 <i class="fas fa-cloud-sun-rain"></i>
77 <div>Max-32&#176;C</div>
78 <div>Min-29&#176;C</div>
79 </div>
80
81 <div>
82 <p>Fri</p>
83 <i class="fas fa-bolt"></i>
84 <div>Max-33&#176;C</div>
85 <div>Min-30&#176;C</div>
86 </div>
87
88 </div>
89 <div id="map">
90 <iframe id="map1" src="https://maps.google.com/maps?q=delhi&t=&z=13&ie=UTF8&iwloc=&output=embed" frameborder="0" s
91 blue
92 "></iframe>
93 </div>
94 </div>
95 </div>
96 <div class="footer">
97 <p>Design And Developed By Kalyani Pothuri</p>
98 </div>
99 </body>
100 <script src="https://cdnjs.cloudflare.com/ajax/libs/moment.js/2.29.1/moment.min.js" integrity="sha512-qTXRIMyZIFb8iQcfjXWC08+M5Tbc
101 <script src="./index.js"></script>
102 </html>

```

2.Indexx.css

```
1 @import url('https://fonts.googleapis.com/css2?family=Poppins:wght@300&display=swap');
2 *{
3     margin: 0;
4     padding: 0;
5     font-family: 'poppins';
6 }
7 body{
8     background-size: cover;
9     background-color: rgb(175, 221, 248);
10 }
11 #mainContainer{
12     width: 100%;
13     height: 705px;
14     background-color: #fff;
15     margin: auto;
16     margin-top: 0px;
17     display: flex;
18     justify-content: center;
19     align-items: center;
20 }
21 }
22 #left
23 {
24     width: 70%;
25     height: 100%;
26     background-color: rgb(237, 251, 253);
27 }
28
29 #city{
30     margin-left: 130px;
31     width: 400px;
32     height: 30px;
33     margin-top: 20px;
34     margin-bottom: 10px;
35     border-radius: 20px;
36     font-weight: lighter;
37     padding-left: 20px;
```

```
37     padding-left: 20px;
38     border: none;
39     border: 1px solid rgb(71, 71, 71);
40 }
41 #Search{
42     padding: 3px 10px;
43     border-radius: 10px;
44     border: none;
45     font-weight: 900;
46     background-color: teal;
47     color: white;
48 }
49 }
50 #leftOne{
51     display: flex;
52     justify-content: space-between;
53     align-items: center;
54     width: 90%;
55     margin: auto;
56     height: 100px;
57     margin-top: 25px;
58 }
59 #leftOne>div:first-child{
60     width: 40%;
61     height: 80%;
62 }
63
64
65 #leftOne>div:last-child{
66     width: 20%;
67     height: 60%;
68 }
69 #timeDiv{
70     line-height: 40px;
71 }
72 #time{
73     font-size: 20px;
```



```
73         font-size: 20px;
74         font-weight: 900;
75     }
76     #ampm{
77         font-size: 20px;
78         font-weight: 500;
79     }
80     #date{
81         font-size: 20px;
82     }
83 }
84
85 #right{
86     width: 30%;
87     height: 100%;
88
89 }
90 #day{
91     padding: 5px 12px;
92     margin: 10px 10px 10px 0px;
93     border: none;
94     border-radius: 5px;
95     font-weight: 600;
96     width: 580px;
97 }
98 #gmap_canvas{
99     border-radius: 20px;
100     margin-top: 5px;
101 }
102 #night{
103     padding: 5px 8px;
104     margin-left: 20px;
105     border-radius: 5px;
106     border: none;
107     font-weight: 600;
108
109 }
```

```
110 #days{
111     width: 940px;
112     height: 150px;
113     display: flex;
114     padding: 5px;
115     justify-content: center;
116     align-items: center;
117     border-spacing: 10px;
118     border-radius: 10px;
119     margin-left: 30px;
120     background-color: rgb(53, 46, 46);
121 }
122 #days>div{
123     width: 15%;
124     height: 90%;
125     text-align: center;
126     margin-right: 3px;
127     border-spacing: 30%;
128     border: .5px solid rgb(97, 94, 94);
129     background-color: rgb(65, 64, 64);
130     border-radius: 5px;
131 }
132 #icon
133 {
134     width: 50px;
135     height: 50px;
136 }
137 #days div p{
138     margin-top: 5px;
139     color: white;
140     font-size: 20px;
141     font-weight: 600;
142 }
143 #days div img{
144     margin-top: -10px;
145     width: 60px;
146     height: 60px;
```

```
146     height: 60px;
147 }
148 #days div{
149     color: white;
150 }
151 #days div i{
152     color: yellow;
153     font-size: 35px;
154 }
155 #wImg{
156     width: 150px;
157     height: 150px;
158     margin-top: -30px;
159 }
160 #curDay{
161     font-size: 30px;
162     font-weight: 600;
163 }
164 #cals{
165     margin-top: -12px;
166     color: white;
167 }
168 #Ncals{
169     color: white;
170 }
171 #rightOne{
172     width: 80%;
173     height: 300px;
174     margin: 30px 0px 0px 30px;
175     border-radius: 20px;
176     background-color: #1a395c;
177     color: white;
178     text-align: center;
179 }
180 #loc{
181     display: flex;
182 }
```



```
183  #loc>p{
184      margin:20px 0px 0px 5px;
185      color: yellow;
186      font-weight: 900;
187  }
188
189  #log{
190      font-size: 15px;
191      margin:25px 0px 0px 20px;
192  }
193
194  #rightOne>div:nth-child(2) i{
195      font-size: 70px;
196      margin-top: 30px;
197  }
198
199  #temp{
200      font-size: 60px;
201      font-weight: 900;
202      margin-top: -38px;
203      font-size: 60px;
204  }
205  #sel{
206      font-size: 45px;
207      font-weight: 600;
208  }
209
210  #o{
211      font-size: 30px;
212  }
213  #Rightdate{
214      margin-top: -10px;
215      font-size: 20px;
216  }
217  #rightTop{
218      width: 70%;
```

```

218     width: 70%;
219     height: 20%;
220     margin: 30px 0px 0px 30px;
221     padding: 20px;
222     background-color: #405f0f;
223     color: white;
224     margin-top: 20px;
225     font-weight: 400;
226     opacity: .9;
227     border-radius: 20px;
228 }
229
230 #rightTop2>div{
231     margin-left: 20px;
232 }
233 #rightTop2>div:nth-child(1)
234 {
235     padding-top: 10px;
236 }
237 #rightTop>div{
238     margin-left: 20px;
239 }
240
241
242 #map1{
243     height: 370px;
244     width: 950px;
245     border-radius: 20px;
246     margin-top: 20px;
247     margin-left: 30px;
248 }
249 #map{
250     border-color: #051937;
251 }
252 .footer {
253     background-image: linear-gradient(to left, #051937, #004d7a, #008793, #00bf72, #a8eb12);
254     position: fixed;

```

```

252 .footer {
253     background-image: linear-gradient(to left, #051937, #004d7a, #008793, #00bf72, #a8eb12);
254     position: fixed;
255     left: 0;
256     bottom: 0;
257     width: 100%;
258     font-size: 30px;
259     background-color: red;
260     color: white;
261     text-align: center;
262 }
263 h3{
264     text-align: center;
265     font-size: 30px;
266     background-image: linear-gradient(to right top, #051937, #004d7a, #008793, #00bf72, #a8eb12);
267     color: aliceblue;
268 }

```

3.Index.js

```
1  let city="Delhi";
2  let container = document.getElementById("container");
3
4  async function getWeather()
5  {
6
7      try{
8
9          city = document.getElementById('city').value;
10
11
12         let res = await fetch(`https://api.openweathermap.org/data/2.5/weather?q=${city}&appid=b00a0b99175cc88768fe4a89dc10e540&units=metric`);
13     if(res===undefined){
14         console.log("mai chal rha hu")
15     }
16
17     let data = await res.json();
18
19     console.log(data);
20
21     appendsData(data)
22
23     }
24
25     catch(err)
26     {
27         alert("Kindly Enter Correct City");
28         console.log("err:",err);
29
30     }
31
32 }
33
34 getWeather();
35
36 function appendsData(data)
37 {
38
39     if(data.name===undefined)
40     {
41         document.getElementById("cityName").innerText="Delhi";
42         return false;
```

```

41     document.getElementById("cityName").innerText="Delhi";
42     return false;
43 }
44 document.getElementById("humidity").innerText=data.main.humidity;
45 document.getElementById("pressure").innerText=data.main.pressure;
46 document.getElementById("wind").innerText=data.wind.speed;
47 document.getElementById("map").innerHTML=null;
48 let iframe = document.createElement("iframe");
49 iframe.setAttribute("id","map1");
50 iframe.src=`https://maps.google.com/maps?q=${data.name}&t=&z=13&ie=UTF8&iwloc=&output=embed`;
51 document.getElementById("map").append(iframe);
52 let lat = data.coord.lat;
53 let lon = data.coord.lon;
54 Wheather(lat,lon);
55 async function Wheather(lat,lon)
56 {
57     try{
58         let daily = await fetch(`https://api.openweathermap.org/data/2.5/onecall?lat=${lat}&lon=${lon}&appid=${API_KEY}`);
59         let dailyData = await daily.json();
60         console.log(dailyData);
61         eigthDays(dailyData);
62     }
63     catch(err)
64     {
65     }
66 }
67 }
68 function eigthDays(Data)
69 {
70     document.getElementById("days").innerHTML=null;
71     document.getElementById("rightOne").innerHTML=null;
72     for(let i=0;i<7;i++)
73     {
74         if(i==0)
75         {
76             let divRight = document.createElement("div");
77             let loc = document.createElement("div");
78             loc.id="loc";
79             let icon = document.createElement("i");
80             icon.innerHTML=`<i id="log" class="fas fa-map-marker-alt"></i>`;
81             let pTag = document.createElement("p");
82             pTag.innerText=data.name;

```



```

82     pTag.innerText=data.name;
83     pTag.id="cityName";
84     loc.append(icon,pTag);
85     let p = document.createElement("p");
86     p.innerText=`${window.moment(Data.daily[i].dt*1000).format('ddd')}`;
87     p.id="curDay";
88     let divLogo = document.createElement("div");
89     let locImage = document.createElement("img");
90     locImage.src=`http://openweathermap.org/img/wn/${Data.daily[i].weather[0].icon}@2x.png`;
91     locImage.id="wImg";
92     divLogo.append(p,locImage);
93     let tempDiv = document.createElement("div");
94     tempDiv.innerHTML=`<span id="temp">${data.main.temp}</span><span id="sel">&#176;C</span>`;
95     tempDiv.id="temp";
96     divRight.append(loc,divLogo,tempDiv);
97     document.getElementById("rightOne").append(divRight);
98 }
99 else{
100     let div = document.createElement("div");
101     let p = document.createElement("p");
102     p.innerText=`${window.moment(Data.daily[i].dt*1000).format('ddd')}`;
103     let img = document.createElement("img");
104     img.src=`http://openweathermap.org/img/wn/${Data.daily[i].weather[0].icon}@2x.png`;
105     img.setAttribute("id","icon");
106     let dayCal = document.createElement("div");
107     dayCal.innerText="Max-"+Data.daily[i].temp.max;
108     //console.log(Data.daily[i].temp.max);
109     dayCal.setAttribute("id","cals");
110     let nightCal = document.createElement("div");
111     nightCal.setAttribute("id","Ncals");
112     nightCal.innerText="Min-"+Data.daily[i].temp.min;
113     div.append(p,img,dayCal,nightCal);
114     document.querySelector("#days").append(div);
115 }
116 }
117 }
118 }
119 const days = ['Sunday','Monday','Tuesday','Wednesday','Thursday','Friday','Saturday'];
120 const months = ['Jan','Feb','Mar','Apr','May','Jun','Jul','Aug','Sep','Oct','Nov','Dec'];
121 setInterval(function()
122 {
123     const time = new Date();
124     const month = time.getMonth();

```

```

101         let p = document.createElement("p");
102         p.innerText=`${window.moment(Data.daily[i].dt*1000).format('ddd')}`;
103         let img = document.createElement("img");
104         img.src = `http://openweathermap.org/img/wn/${Data.daily[i].weather[0].icon}@2x.png`;
105         img.setAttribute("id", "icon");
106         let dayCal = document.createElement("div");
107         dayCal.innerText="Max-"+Data.daily[i].temp.max;
108         //console.log(Data.daily[i].temp.max);
109         dayCal.setAttribute("id", "cals");
110         let nightCal = document.createElement("div");
111         nightCal.setAttribute("id", "Ncals");
112         nightCal.innerText="Min-"+Data.daily[i].temp.min;
113         div.append(p, img, dayCal, nightCal);
114         document.querySelector("#days").append(div);
115     }
116 }
117 }
118 }
119 const days = ['Sunday', 'Monday', 'Tuesday', 'Wednesday', 'Thursday', 'Friday', 'Saturday'];
120 const months = ['Jan', 'Feb', 'Mar', 'Apr', 'May', 'Jun', 'Jul', 'Aug', 'Sep', 'Oct', 'Nov', 'Dec'];
121 setInterval(function()
122 {
123     const time = new Date();
124     const month = time.getMonth();
125     const date = time.getDate();
126     const day = time.getDay();
127     const hour = time.getHours();
128     const hoursIn12HrsFormat = hour >= 13 ? hour % 12 : hour;
129     const minutes = time.getMinutes();
130     const ampm = hour >= 12 ? 'PM' : 'AM';
131     console.log(hoursIn12HrsFormat);
132     document.querySelector("#time").innerHTML= (hoursIn12HrsFormat < 10 ? '0'+hoursIn12HrsFormat : hoursIn12HrsFormat) + ':' + (mi
133     document.querySelector("#date").innerHTML=days[day] + ', ' + date+ ' '+months[month];
134     document.querySelector("#Rightdate").innerHTML=days[day] + ', ' + date+ ' '+months[month];
135 }, 1000);

```