# PROJECT NAME: WEB DEVELOPMENT MAJOR PROJECT

NAME: NIVATHAA.G

BATCH: FEBRUARY 2023

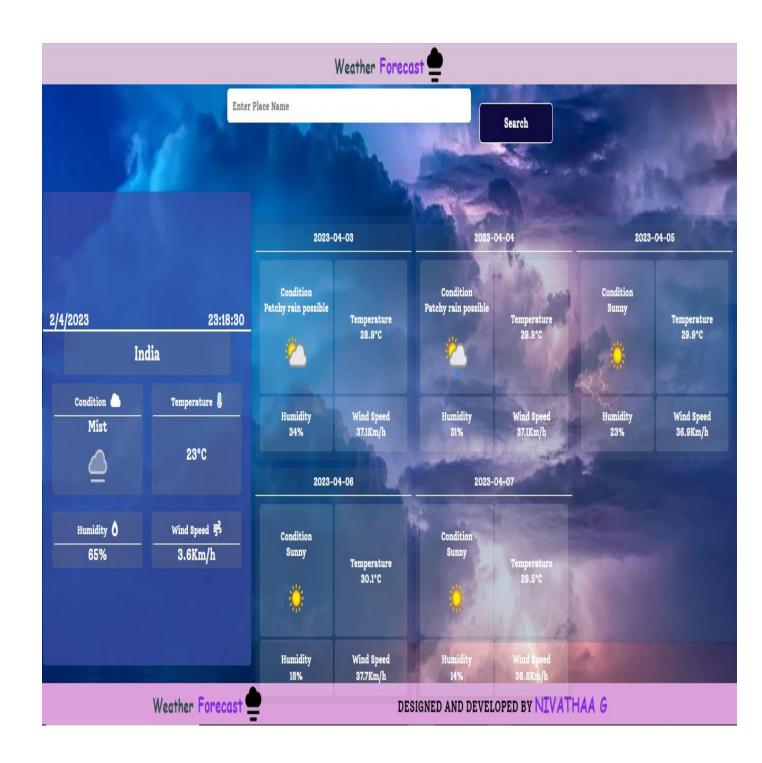
## WEATHER FORECAST APPLICATION

EMAIL: nivathaa663@gmail.com

Webpage link:

D:/major/weather.html

#### SCREENSHOT OF MY WEBPAGE:



By default the location set to "INDIA"

#### SCREEN SHOT OF MY CODE:

#### Weather.html

```
<div class="CurrentWeather">
   <div class="DateTime_Container">
      Date
Time
   <h3 id="Place_Name">Place Name</h3>
   <div class="Weather_Details";</pre>
          <h5>Condition <i class="fa-solid fa-cloud"></i></h5>

          <div class="Weather Item">
          <h5>Temperature <i class="fa-solid fa-temperature-full"></i></h5>
           <span id="Temperature"></span>&deg;C
      <div class="Weather_Item">
          <h5>Humidity <i class="fa-solid fa-fire-flame-simple"></i></h5>
       <div class="Weather_Item">
          <h5>Wind Speed <i class="fa-solid fa-wind"></i></h5>
          <span id="WindSpeed"></span> Km/h
```

```
65
                 <div class="WeatherForecast_Container">
                     <div class="WeatherForeCast">
                             <h5 id="Day1"></h5>
                             <div class="ForeCastItem-Details">
                                 <div id="Day1ConditionBox" class="ConditionBox"> </div>
                                 Temperature<span id="Day1Temperature"></span>
                                 Humidity<span id="Day1Humidity"></span>Wind Speed<span id="Day1Wind"></span>
                          <div class="ForeCastItem">
                             <h5 id="Day2"></h5>
                             <div class="ForeCastItem-Details">
                                 <div id="Day2ConditionBox" class="ConditionBox"> </div>
                                 Temperature<span id="Day2Temperature"></span>
                                 Humidity<span id="Day2Humidity"></span>
                                 Wind Speed<span id="Day2Wind"></span>
                         <div class="ForeCastItem">
                              <div class="ForeCastItem-Details">
```

```
| Section | Sect
```

#### Cast.css

```
# cast.css > ...
          margin: 0;
          padding: 0;
          box-sizing: border-box;
          font-family: 'Solway', serif;
          font-weight: 700;
      main{
          width: 100%;
          height: fit-content;
color: ■white;
          background-image: url(https://cdn.pixabay.com/photo/2018/08/23/07/35/thunderstorm-3625405__480.jpg);
          background-size: cover;
          background-repeat: no-repeat;
      header{
         width: 100%;
          height: 6vh;
          display: flex;
          align-items: center;
          justify-content: center;
          background-color: ■ thistle;
          position: fixed;
          top: 0;
```

```
#Name{
          font-family: cursive;
font-weight: 700;
          font-size: 18px;
color: □ darkslategrey;
      #Name span{
          font-family: cursive;
          font-size: 20px;
          font-weight: 800;
          color: | blueviolet;
      .App_Icon{
          width: 40px;
47
      form{
          margin: 5em auto 0em auto;
          width: 70%;
          height: 15vh;
          display: flex;
          align-items: center;
          justify-content: center;
          gap: 1em;
      .Search_Field{
          width: 50%;
          display: flex;
          justify-content: center;
          flex-direction: column;
```

```
#Search_Place{
         width: 100%;
         padding: 0.8em;
         border: none;
         border-radius: 5px;
         font-size: 12px;
70
     #Search_Place:focus{
         outline: none;
     #ErrorMsg{
         text-transform: capitalize;
         font-weight: 400;
76
         background-color: med;
         font-size: 12px;
78
         font-style: italic;
79
         padding: 0.8em;
         border-bottom-left-radius: 5px;
         border-bottom-right-radius: 5px;
         opacity: 0;
         word-spacing: 5px;
     #SearchButton{
         width: 15%;
         padding: 0.8em;
         border: none;
         border-radius: 5px;
         background-color: ☐ rgba(15, 10, 63, 1);
         color: ■white;
         border: 1px solid ■white;
```

```
#SearchButton:hover{
          cursor: pointer;
          background-color: □rgba(15, 10, 63, 0);
101 ∨ .Weather Con{
          margin: 1em 0em;
          width: 100%;
          height: 70vh;
          padding: 0.1em ;
          display: flex;
          align-items: center;
          justify-content: center;
110
111
112 v .CurrentWeather_Con{
          box-shadow: □rgba(0, 0, 0, 0.02) 0px 1px 3px 0px, □rgba(27, 31, 35, 0.15) 0px 0px 0px 1px;
114
          width: 30%;
115
          height: 100%;
116
          background-color: ■#3c4ca5be;
          display: flex;
117
118
          align-items: center;
          justify-content: center;
          border-radius: 5px;
```

```
.CurrentWeather_Con .CurrentWeather{
    border-radius: 5px;
    width: 100%;
    height: 50%;
   display: flex;
    flex-direction: column;
    align-items: center;
    text-align: center;
.CurrentWeather_Con .CurrentWeather .DateTime_Container{
   border-bottom: 2px solid ■white;
    width: 100%;
   height: 9%;
    display: flex;
    align-items: center;
    justify-content: space-between;
    padding: 0em 0.8em;
#Place Name{
   width: 80%;
    padding: 0.5em;
    border-radius: 5px;
    background-color: ☐rgba(128, 128, 128, 0.281);
.Weather_Details{
   width: 95%;
    height: 65%;
   display: grid;
    grid-template-columns: repeat(2, 1fr);
    grid-template-rows: repeat(2, 1fr);
   gap: 1em;
```

```
padding: 0.5em;
      .Weather_Item{
         border-radius: 5px;
         display: flex;
         align-items: center;
         flex-direction: column;
         padding: 0.2em;
      .Weather_Item p{
         height: 80%;
         width: 100%;
         display: flex;
         align-items: center;
171
         justify-content: center;
172
      #WeatherConditionBox {
         display: flex;
         align-items: center;
         justify-content: center;
     h5{
         font-size: 12px;
         border-bottom: 1px solid ■white;
         padding: 0.5em;
         width: 100%;
183
         text-align: center;
     h5 i{
         font-size: 15px;
```

```
margin-left: 5px;
      .WeatherForecast_Container{
         box-shadow: ☐rgba(0, 0, 0, 0.02) 0px 1px 3px 0px, ☐rgba(27, 31, 35, 0.15) 0px 0px 0px 1px;
          background-color: ☐ hsla(211, 67%, 33%, 0.267);
          width: 70%;
         height: 90%;
      .WeatherForecast_Container .WeatherForeCast{
          border-radius: 5px;
          width: 100%;
         height: 100%;
         display: grid;
          grid-template-columns: repeat(3, 2fr);
          padding: 0.5em;
          gap: 0.5em;
      .WeatherForeCast .ForeCastItem{
          background-color: ☐ rgba(128, 128, 128, 0.116);
          border-radius: 5px;
          display: flex;
          flex-direction: column;
         align-items: center;
      .WeatherForeCast .ForeCastItem:hover{
          transform: scale(0.95);
      .ForeCastItem .ForeCastItem-Details{
         width: 100%;
218
          height: 90%;
         padding: 0.5em;
```

```
220
          display: grid;
          grid-template-columns: repeat(2, 1fr);
          gap: 0.2em;
      .ForeCastItem .ForeCastItem-Details p, .ConditionBox{
          border-radius: 5px;
          display: flex;
          align-items: center;
          justify-content: center;
          font-size: 12px;
          flex-direction: column;
          padding: 1em 0em;
          gap: 0.1em;
          background-color: ☐ rgba(249, 246, 252, 0.144);
      .ForeCastItem .ForeCastItem-Details .ConditionBox p{
          background-color: transparent;
      .WeatherForeCast .ForeCastItem .ForeCastItem-Details .ConditionBox img{
          width: 50px;
      #ConditionIcon img{
          width: 50px;
246
      footer {
          width: 100%;
          height: 6vh;
          display: flex;
          flex-direction: row;
```

```
justify-content: center;
           align-items: center;
          gap: 2em;
          background-color: mplum;
          padding: 0.2em;
        footer .App-Logo {
          font-family: cursive;
          display: flex;
           flex-direction: row;
          justify-content: center;
264
          align-items: center;
          gap: 0em;
          width: 30%;
height: 100%;
          display: flex;
          flex-direction: row;
          justify-content: center;
           align-items: center;
272
          gap: 0em;
276
        footer .DesignerInfo {
          width: 50%;
          text-align: center;
          height: 100%;
279
          display: flex;
          flex-direction: row;
281
          justify-content: center;
          align-items: center;
```

```
footer .DesignerInfo {
276
277
          width: 50%;
278
          text-align: center;
          height: 100%;
279
          display: flex;
281
          flex-direction: row;
          justify-content: center;
282
          align-items: center;
          gap: 0em;
          color: □ black;
        footer .DesignerInfo #Name {
287
          font-family: cursive;
288
          color: ■blueviolet;
290
          font-size: 20px;
291
292
```

### Open.js

```
JS open.js > [@] ShowWeather
      const DefaultPlace = "India";
      const CheckCity = /^[A-Za-z]+$/;
      let WeatherContainer = document.querySelector(".Weather_Container")
      let CurrentDate = document.getElementById("Date");
      let CurrentTime = document.getElementById("Time");
      let City = document.getElementById("Place Name");
      let SearchCity = document.getElementById("Search_Place");
      let SearchButton = document.getElementById('SearchButton');
      let Temperature = document.getElementById("Temperature");
      let Condition = document.getElementById("Condition");
11
12
      let Humidity = document.getElementById("Humidity");
      let WindSpeed = document.getElementById("WindSpeed");
      let ErrorMsg = document.getElementById("ErrorMsg");
      let Day1= document.getElementById("Day1")
      let Day1Temperature = document.getElementById("Day1Temperature");
      let Day1Humidity = document.getElementById("Day1Humidity");
      let Day1Wind = document.getElementById("Day1Wind");
      let Day1ConditionBox = document.getElementById("Day1ConditionBox");
      let Day2= document.getElementById("Day2")
      let Day2Temperature = document.getElementById("Day2Temperature");
      let Day2Humidity = document.getElementById("Day2Humidity");
      let Day2Wind = document.getElementById("Day2Wind");
      let Day2ConditionBox = document.getElementById("Day2ConditionBox");
      let Day3= document.getElementById("Day3")
      let Day3ConditionBox = document.getElementById("Day3ConditionBox");
      let Day3Temperature = document.getElementById("Day3Temperature");
      let Day3Humidity = document.getElementById("Day3Humidity");
```

```
let Day3Wind = document.getElementById("Day3Wind");
let Day4= document.getElementById("Day4")
let Day4ConditionBox = document.getElementById("Day4ConditionBox");
let Day4Temperature = document.getElementById("Day4Temperature");
let Day4Humidity = document.getElementById("Day4Humidity");
let Day4Wind = document.getElementById("Day4Wind");
let Day5= document.getElementById("Day5")
let Day5ConditionBox = document.getElementById("Day5ConditionBox");
let Day5Temperature = document.getElementById("Day5Temperature");
let Day5Humidity = document.getElementById("Day5Humidity");
let Day5Wind = document.getElementById("Day5Wind");
let ConditionIconBox = document.getElementById("ConditionIcon");
SearchButton.addEventListener('click', (event)=>{
    let len= SearchCity.value
    if(SearchCity.value.match(CheckCity) && len.length != 0){
         GetWeather(SearchCity.value);
         ErrorMsg.style.opacity = 1;
         ErrorMsg.innerHTML ="Kindly Enter Valid Place Name !";
         ErrorMsg.style.backgroundColor ="red";
         HideErrorMsg();
         SearchCity.focus();
         SearchCity.value="
```

```
const GetWeather = (city) =>{
    const url = `http://api.weatherapi.com/v1/forecast.json?key=378603cebc014f298d5164956232702&q=${city}&days=6&aqi=no&alerts=no`;
    fetch(url).then((resp) => resp.json())
    .then(data =>{
       ErrorMsg.style.opacity = 1;
        ErrorMsg.style.backgroundColor ="green";
        ErrorMsg.innerHTML =`${city}'s Weather Details Show`;
       HideErrorMsg();
       return ShowWeather(data)
    .catch(()=>{
       ErrorMsg.style.opacity = 1;
        ErrorMsg.style.backgroundColor ="red";
        ErrorMsg.innerHTML =`${city} not found`;
        SearchCity.focus();
        SearchCity.value = "";
       HideErrorMsg();
const ShowWeather = (WeatherData) =>{
    City.innerHTML = `${WeatherData.location.country}`;
    Temperature.innerHTML =`${WeatherData.current.temp_c};
    Condition.innerHTML = `${WeatherData.current.condition.text}`;
    Humidity.innerHTML = `${WeatherData.current.humidity}`;
    WindSpeed.innerHTML = `${WeatherData.current.wind kph}`;
    ConditionIconBox.innerHTML =`<img src="${WeatherData.current.condition.icon}" alt="Condition-Icon">`
```

```
Day1.innerHTML = `${WeatherData.forecast.forecastday[1].date}`;
         Day1ConditionBox.innerHTML = `Condition<span>${WeatherData.forecast.forecastday[1].day.condition.text}</span> 
         <img src="${WeatherData.forecast.forecastday[1].day.condition.icon}" alt="Condition-Icon">`
         Day1Temperature.innerHTML = `${WeatherData.forecast.forecastday[1].day.avgtemp c}`+"°C";
         Day1Humidity.innerHTML = `${WeatherData.forecast.forecastday[1].day.avghumidity}` + "%";
         Day1Wind.innerHTML = `${WeatherData.forecast.forecastday[1].day.maxtemp c}` + "Km/h";
         Day2.innerHTML = `${WeatherData.forecast.forecastday[2].date}`;
         Day2ConditionBox.innerHTML = `Condition<span>${WeatherData.forecast.forecastday[2].day.condition.text}
         <img src="${WeatherData.forecast.forecastday[2].day.condition.icon}" alt="Condition-Icon">`
         Day2Temperature.innerHTML = `${WeatherData.forecast.forecastday[2].day.avgtemp c}`+"°C";
         Day2Humidity.innerHTML = `${WeatherData.forecast.forecastday[2].day.avghumidity}` + "%";
         Day2Wind.innerHTML = `${WeatherData.forecast.forecastday[2].day.maxtemp c}` + "Km/h";
         Day3.innerHTML = `${WeatherData.forecast.forecastday[3].date}`;
         Day3ConditionBox.innerHTML = `Condition<span>${WeatherData.forecast.forecastday[3].day.condition.text}</span> 
         <img src="${WeatherData.forecast.forecastday[3].day.condition.icon}" alt="Condition-Icon">`
         Day3Temperature.innerHTML = `${WeatherData.forecast.forecastday[3].day.avgtemp c}`+"°C";
         Day3Humidity.innerHTML = `${WeatherData.forecast.forecastday[3].day.avghumidity}` + "%";
         Day3Wind.innerHTML = `${WeatherData.forecast.forecastday[3].day.maxtemp c}` + "Km/h";
         Day4.innerHTML = `${WeatherData.forecast.forecastday[4].date}`;
         Day4ConditionBox.innerHTML = `Condition<span>${WeatherData.forecast.forecastday[4].day.condition.text}</span> 
         <img src="${WeatherData.forecast.forecastday[4].day.condition.icon}" alt="Condition-Icon">`
         Day4Temperature.innerHTML = `${WeatherData.forecast.forecastday[4].day.avgtemp c}`+"°C";
         Day4Humidity.innerHTML = `${WeatherData.forecast.forecastday[4].day.avghumidity}` + "%";
         Day4Wind.innerHTML = `${WeatherData.forecast.forecastday[4].day.maxtemp c}` + "Km/h";
         Day5.innerHTML = `${WeatherData.forecast.forecastday[5].date}`;
         Day5ConditionBox.innerHTML = `Condition<span>${WeatherData.forecast.forecastday[5].day.condition.text}</span> 
129
         <img src="${WeatherData.forecast.forecastday[5].day.condition.icon}" alt="Condition-Icon">`
         Day5Temperature.innerHTML = `${WeatherData.forecast.forecastday[5].day.avgtemp_c}`+"°C";
```

```
Day5Humidity.innerHTML = `${WeatherData.forecast.forecastday[5].day.avghumidity}` + "%";
          Day5Wind.innerHTML = `${WeatherData.forecast.forecastday[5].day.maxtemp_c}` + "Km/h";
134
      let SystemDate = new Date();
     CurrentDate.innerHTML = SystemDate.getDate()+"/"+ (SystemDate.getMonth()+1) +"/"+ SystemDate.getFullYear();
     function startTime() {
          const today = new Date();
          let h = today.getHours();
         let m = today.getMinutes();
         let s = today.getSeconds();
         m = checkTime(m);
          s = checkTime(s);
          CurrentTime.innerHTML = h + ":" + m + ":" + s;
          setTimeout(startTime, 1000);
        function checkTime(i) {
        if (i < 10) {
      function HideErrorMsg() {
          setTimeout(() => {
              ErrorMsg.style.opacity = 0;
          }, 5000);
```

\*