#### WEATHER APP

### Html code:

# WD.html

```
<!DOCTYPE html>
<html lang="en">
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Weather App With JavaScript</title>
    <link rel="stylesheet" href="WD.css" />
  </head>
  <body>
    <div class="container">
      <div class="header">
        <div class="search-box">
          <input</pre>
            type="text"
            placeholder="Enter your location"
            class="input-box"
            spellcheck="false"
          <button class="fa-solid fa-magnifying-glass"</pre>
id="searchBtn"></button>
        </div>
      </div>
      <div class="location-not-found">
        <h1>Sorry, Location not found!!!</h1>
src="https://res.cloudinary.com/dcladcqtf/image/upload/v1691168948/404-
error_pdn9nc.png" alt="404 Error" />
      </div>
      <div class="weather-body">
          src="https://res.cloudinary.com/dcladcqtf/image/upload/v1691169151/c
loudy.jpeg_pjrq5p.jpg"
          alt="Weather Image"
          class="weather-img"
          style="align-items: center; width: 200px; height: 200px"
        <div>
          <h1 class="city" style="text-align: center; color: white">
            City Name
          </h1>
        </div>
        <div class="weather-box">
```

```
Tuesday July 25, 2023
      0 <sup>°C</sup>
      light rain
    </div>
    <div class="weather-details">
      <div class="humidity">
       <i class="fa-sharp fa-solid fa-droplet"></i></i>
       <div class="text">
         <span id="humidity">45%</span>
         Humidity
       </div>
      </div>
      <div class="wind">
       <i class="fa-solid fa-wind"></i></i>
       <div class="text">
         <span id="wind-speed">12Km/H</span>
         Wind Speed
       </div>
      </div>
    </div>
  </div>
  <div class="table-container">
    <h2>Weather Forecast</h2>
    Date
         Temperature (°C)
         Wind Speed (Km/H)
         Humidity (%)
         Description
       </thead>
      <!-- Rows will be added dynamically here -->
      </div>
 </div>
 <script src="WD.js"></script>
   src="https://kit.fontawesome.com/595a890311.js"
  crossorigin="anonymous"
 ></script>
</body>
```

### WD.CSS

```
margin: 0;
    padding: 0;
    box-sizing: border-box;
   border: none;
   outline: none;
   font-family: sans-serif;
body {
   min-height: 100vh;
    display: flex;
    justify-content: center;
    align-items: center;
    background-color: rgb(0, 0, 0);
    background-size: 100%;
    background-position: 100%;
    background-repeat: no-repeat;
    background-attachment: fixed;
    justify-content: center;
.container {
   opacity: 0.7;
   width: 600px;
    height: min-content;
    background-image: linear-gradient(45deg, rgb(18, 237, 168), rgb(97, 31,
202));
   border-radius: 12px;
    padding: 28px;
.search-box {
   width: 100%;
   height: min-content;
   display: flex;
    justify-content: space-between;
    align-items: center;
.search-box input {
   width: 84%;
   font-size: 20px;
   text-transform: capitalize;
```

```
color: #000;
   background-color: #e6f5fb;
   padding: 12px 16px;
   border-radius: 14px;
.search-box input::placeholder {
   color: #000;
.search-box button {
   width: 46px;
   height: 46px;
   background-color: #e6f5fb;
   border-radius: 50%;
   cursor: pointer;
   font-size: 20px;
.search-box button:hover {
   color: #fff;
   background-color: #ababab;
.weather-body {
   display: flex;
   flex-direction: column;
   align-items: center;
   text-align: center;
   /* Optionally center the text as well */
.weather-body img {
   width: 60%;
.weather-box {
   margin-block: 20px;
   text-align: center;
.weather-box .date {
   font-size: 25px;
   text-align: center;
   font-family: Arial, Helvetica, sans-serif;
   font-style: bold;
```

```
.weather-box .temperature {
   font-size: 40px;
   font-weight: 800;
   position: relative;
.weather-box .temperature sup {
   font-size: 20px;
   position: absolute;
   font-weight: 600;
.weather-box .description {
   font-size: 20px;
   font-weight: 700;
   text-transform: capitalize;
.weather-details {
   width: 100%;
   display: flex;
   justify-content: space-between;
   margin-top: 30px;
.humidity,
.wind {
   display: flex;
   align-items: center;
.humidity {
   margin-left: 20px;
.wind {
   margin-right: 20px;
.weather-details i {
   font-size: 36px;
.weather-details .text {
   margin-left: 10px;
   font-size: 16px;
```

```
.text span {
    font-size: 20px;
    font-weight: 700;
.location-not-found {
   margin-top: 20px;
   display: none;
   align-items: center;
   justify-content: center;
   flex-direction: column;
.location-not-found h1 {
   font-size: 20px;
   color: #6b6b6b;
   margin-block-end: 15px;
.location-not-found img {
   width: 80%;
/* table styling*/
.table-container {
   display: flex;
   flex-direction: column;
   align-items: center;
   justify-content: center;
   text-align: center;
   margin-top: 30px;
table {
   width: auto;
   max-width: 100%;
   border-collapse: collapse;
   margin-top: 20px;
   border-radius: 10px;
   overflow: hidden;
   box-shadow: 0px 2px 5px rgba(0, 0, 0, 0.1);
   table-layout: auto;
   /* Set table layout to auto */
   animation: fade-in 0.5s ease;
   margin-top: 20px;
    /* Optional margin for spacing */
```

```
th,
td {
    border: 1px solid #ccc;
   padding: 8px;
    text-align: center;
th,
td {
    background-color: #000000;
    color: white;
tr:nth-child(even) {
   background-color: #f2f2f2;
tr:hover {
   background-color: #73ce93;
/* Remove border for first row */
tr:first-child {
   border-top: none;
/* Remove border for last row */
tr:last-child {
    border-bottom: none;
/* Adjust the container width and padding for smaller screens */
@media only screen and (max-width: 768px) {
    .container {
        width: 80%;
        padding: 20px;
/* Make the search box more responsive */
@media only screen and (max-width: 768px) {
    .search-box {
        flex-direction: column;
        align-items: center;
        gap: 10px;
```

```
.search-box input {
        width: 100%;
    .search-box button {
        width: 100px;
        height: 40px;
        font-size: 16px;
/* Adjust font sizes and spacing for smaller screens */
@media only screen and (max-width: 576px) {
    .weather-box .date {
        font-size: 20px;
    .weather-box .temperature {
        font-size: 30px;
    .weather-box .description {
        font-size: 18px;
    .weather-details .text {
        font-size: 14px;
    .location-not-found h1 {
        font-size: 18px;
/* Make the table more responsive */
@media only screen and (max-width: 768px) {
   table {
        font-size: 14px;
        width: 100%;
       table-layout: fixed;
    th,
    td {
        padding: 6px;
        text-align: left;
        overflow: hidden;
        text-overflow: ellipsis;
```

```
white-space: nowrap;
}

.table-container {
    margin-top: 10px;
    overflow-x: auto;
}

/* Fade-in animation */
@keyframes fade-in {
    0% {
        opacity: 0;
        transform: translateY(10px);
}

100% {
        opacity: 1;
        transform: translateY(0);
    }
}
```

## WD.JS

```
const inputBox = document.querySelector(".input-box");
const searchBtn = document.getElementById("searchBtn");
const weather_img = document.querySelector(".weather-img");
const date = document.getElementById("date");
let todayDate = new Date();
const temperature = document.querySelector(".temperature");
const description = document.querySelector(".description");
const humidity = document.getElementById("humidity");
const wind_speed = document.getElementById("wind-speed");
const location_not_found = document.querySelector(".location-not-found");
const weather_body = document.querySelector(".weather-body");
const apikey = "0affb46e7c900cceb8e0871dbee5fb16";
const apiUrl = "https://api.openweathermap.org/data/2.5/weather?units=metric";
// Function to get user's current location and fetch weather data
function getCurrentLocationWeather() {
 if (navigator.geolocation) {
    navigator.geolocation.getCurrentPosition(
      async (position) => {
        // Get latitude and longitude
        const latitude = position.coords.latitude;
        const longitude = position.coords.longitude;
```

```
// Fetch weather data based on user's location
        try {
          const response = await fetch(
            `${apiUrl}&lat=${latitude}&lon=${longitude}&appid=${apikey}`
          );
          const weatherData = await response.json();
          // Update weather information
          updateWeatherInfo(weatherData);
        } catch (error) {
          console.error("Error fetching weather data:", error);
          displayLocationNotFound();
      },
      (error) => {
        console.error("Error getting user's location:", error);
        // If geolocation is denied or not available, use Delhi as default
location
        getDefaultLocationWeather();
    );
  } else {
   // If geolocation is not supported, use Delhi as default location
    getDefaultLocationWeather();
// Function to fetch weather data for Delhi (default location)
async function getDefaultLocationWeather() {
 try {
    const response = await fetch(`${apiUrl}&q=Delhi&appid=${apikey}`);
    const weatherData = await response.json();
    // Update weather information
    updateWeatherInfo(weatherData);
 } catch (error) {
    console.error("Error fetching weather data:", error);
    displayLocationNotFound();
// Function to handle search button click and fetch weather data for the
searched location
async function handleSearch() {
  const city = inputBox.value.trim(); // Trim the input to remove
leading/trailing spaces
  if (city !== "") {
   checkWeather(city);
```

```
// Function to get weather data based on the city name
async function checkWeather(city) {
 try {
    const response = await fetch(`${apiUrl}&q=${city}&appid=${apikey}`);
    const weatherData = await response.json();
    // Update weather information
    updateWeatherInfo(weatherData);
  } catch (error) {
    console.error("Error fetching weather data:", error);
    displayLocationNotFound();
// Function to update weather information on the page
function updateWeatherInfo(weatherData) {
  // Update weather information on the page as before
  console.log(weatherData);
  name = weatherData.name;
  updateTable(name);
  date.innerText = dateManage(new Date());
  temperature.innerHTML = `${Math.round(weatherData.main.temp)}°C`;
  description.innerHTML = weatherData.weather[0].description;
  humidity.innerHTML = `${weatherData.main.humidity}%`;
  wind_speed.innerHTML = `${weatherData.wind.speed}Km/H`;
 // Update weather image
  switch (weatherData.weather[0].main) {
    case "Clouds":
      weather_img.src =
https://res.cloudinary.com/dcladcqtf/image/upload/v1691169151/cloudy.jpeg_pjr"
q5p.jpg";
      break;
    case "Clear":
      weather_img.src =
"https://res.cloudinary.com/dcladcqtf/image/upload/v1691169205/clear-
sky.jpeg_v0sk6s.jpg";
      break;
    case "Rain":
      weather img.src =
"https://res.cloudinary.com/dcladcqtf/image/upload/v1691169619/rain.jpeg_gwhps
m.jpg";
     break;
```

```
case "Mist":
      weather img.src =
'https://res.cloudinary.com/dcladcqtf/image/upload/v1691077732/wind_qkwsx8.png
      break;
    case "Snow":
      weather_img.src =
"https://res.cloudinary.com/dcladcqtf/image/upload/v1691169577/snowy.jpeg_ucir
2z.jpg";
      break;
    case "Haze":
      weather img.src =
"https://res.cloudinary.com/dcladcqtf/image/upload/v1691169406/haze.jpeg hilu6
q.jpg";
     break;
    case "Thunderstorm":
      weather img.src =
"https://res.cloudinary.com/dcladcqtf/image/upload/v1691169545/thunder.jpeg_z6
to7j.jpg";
      break;
    default:
     weather_img.src =
"https://res.cloudinary.com/dcladcqtf/image/upload/v1691169465/default.jpeg_y1
2eey.jpg";
  // Update city name on the page
  document.querySelector(".city").innerHTML = weatherData.name;
  updateTable(name);
 // Hide the location not found message
 location_not_found.style.display = "none";
  weather body.style.display = "flex";
let apiurl2 = "https://api.openweathermap.org/data/2.5/forecast?units=metric";
// Function to get weather data based on coordinate
async function updateTable(city) {
 try {
    const response = await fetch(`${apiurl2}&q=${city}&appid=${apikey}`);
    const forecastData = await response.json();
    console.log(forecastData);
    // Update weather information
    console.log("updateTable");
    console.log(forecastData);
```

```
updateWeatherTable(forecastData);
 } catch (error) {
    console.error("Error fetching weather data:", error);
    displayLocationNotFound();
// updateTable();
function updateWeatherTable(forecast) {
 console.log(" update weatherupdate Table");
 console.log(forecast);
 const tableBody = document.getElementById("forecastTableBody");
 // Clear existing table rows
 tableBody.innerHTML = "";
 // Days of the week
 const daysOfWeek = [
    "Sunday",
    "Monday",
   "Tuesday",
    "Wednesday",
    "Thursday",
    "Friday",
    "Saturday",
 ];
 // Loop through forecastData for the first 8 days
 for (let i = 4; i < forecast.list.length; ) {</pre>
    const data = forecast.list[i];
   const row = document.createElement("tr");
   const dateCell = document.createElement("td");
   // const datePart = data.dt_txt.split(" ")[0]; // Extract the date part
    const timestamp = new Date(data.dt_txt);
   const dayOfWeek = daysOfWeek[timestamp.getDay()]; // Get the day of the
   dateCell.textContent = dayOfWeek; // Update with the actual property from
your data
   row.appendChild(dateCell);
   // Math.round(data.main.temp)
    const tempCell = document.createElement("td");
    tempCell.textContent = Math.round(data.main.temp); // Update with the
actual property from your data
   row.appendChild(tempCell);
```

```
const windCell = document.createElement("td");
    windCell.textContent = data.wind.speed; // Update with the actual property
from your data
    row.appendChild(windCell);
    const humidityCell = document.createElement("td");
    humidityCell.textContent = data.main.humidity; // Update with the actual
property from your data
    row.appendChild(humidityCell);
    const descCell = document.createElement("td");
    descCell.textContent = data.weather[0].description; // Update with the
actual property from your data
    row.appendChild(descCell);
    // Append the row to the table body
   tableBody.appendChild(row);
   i = i + 8;
// Function to display location not found message
function displayLocationNotFound() {
 location not found.style.display = "flex";
 weather_body.style.display = "none";
}
// Call the function to get user's current location weather on page load
document.addEventListener("DOMContentLoaded", () => {
 getCurrentLocationWeather();
});
// Call the function to handle search button click
searchBtn.addEventListener("click", handleSearch);
function dateManage(dateArg) {
 let days = [
    "Sunday",
    "Monday",
    "Tuesday",
    "Wednesday",
    "Thursday",
    "Friday",
    "Saturday",
  ];
  let months = [
```

```
"January",
  "February",
  "March",
  "April",
  "May",
  "June",
  "July",
  "August",
  "September",
  "October",
  "November",
  "December",
];
// let year = dateArg.getFULLYear();
let year = dateArg.getFullYear(); // Corrected method name
let month = months[dateArg.getMonth()];
let date = dateArg.getDate();
let day = days[dateArg.getDay()];
return `${date} ${month} (${day}), ${year}`;
```

## **OUTPUT SCREENSHOT:**





