

WD-MAJOR PROJECT

Name : Arshad Ali

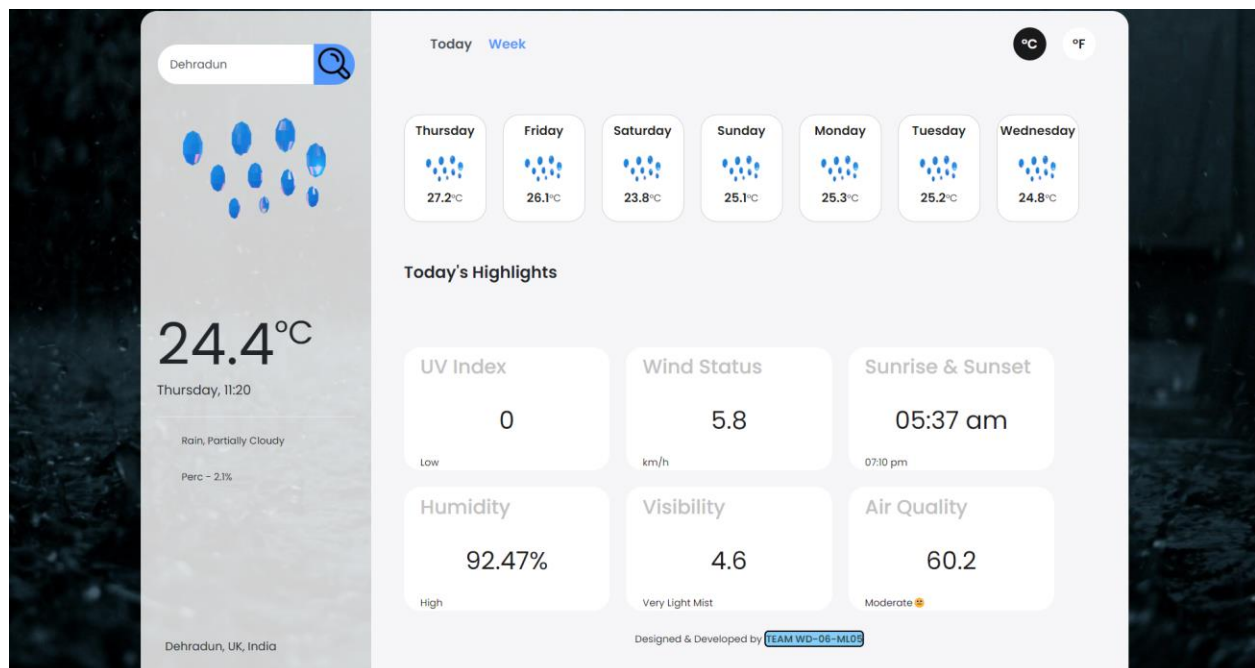
Domain : Web Development

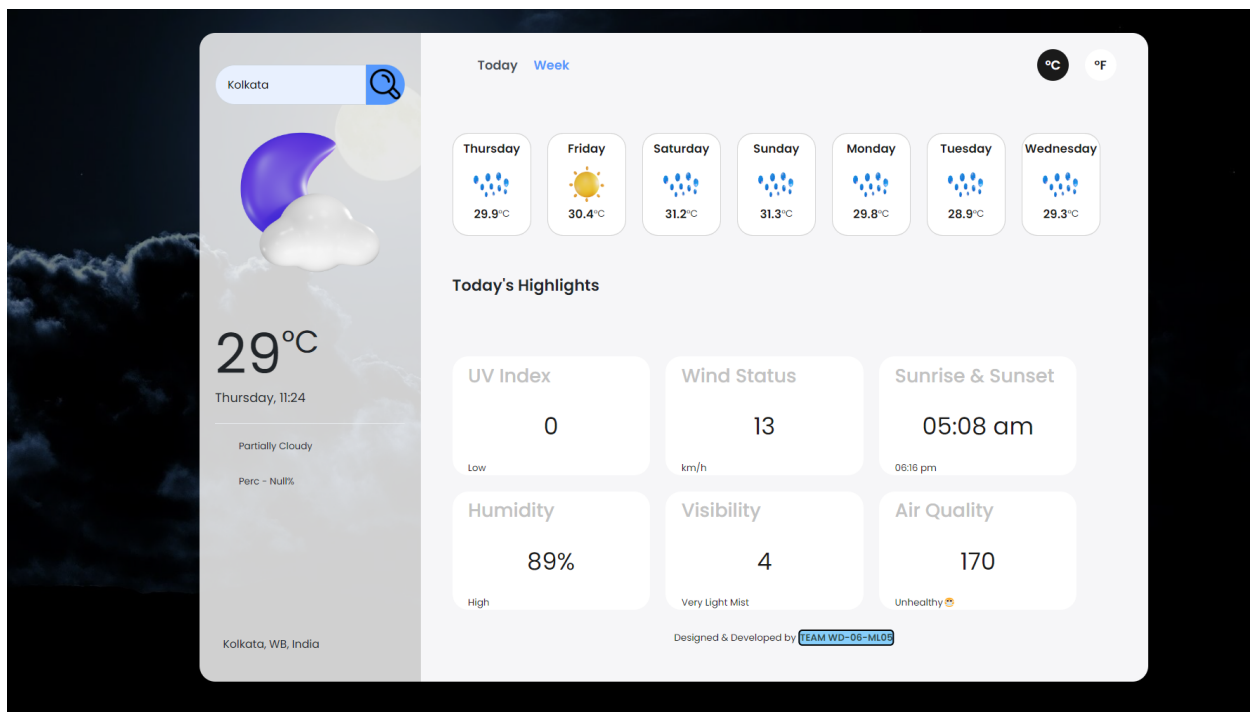
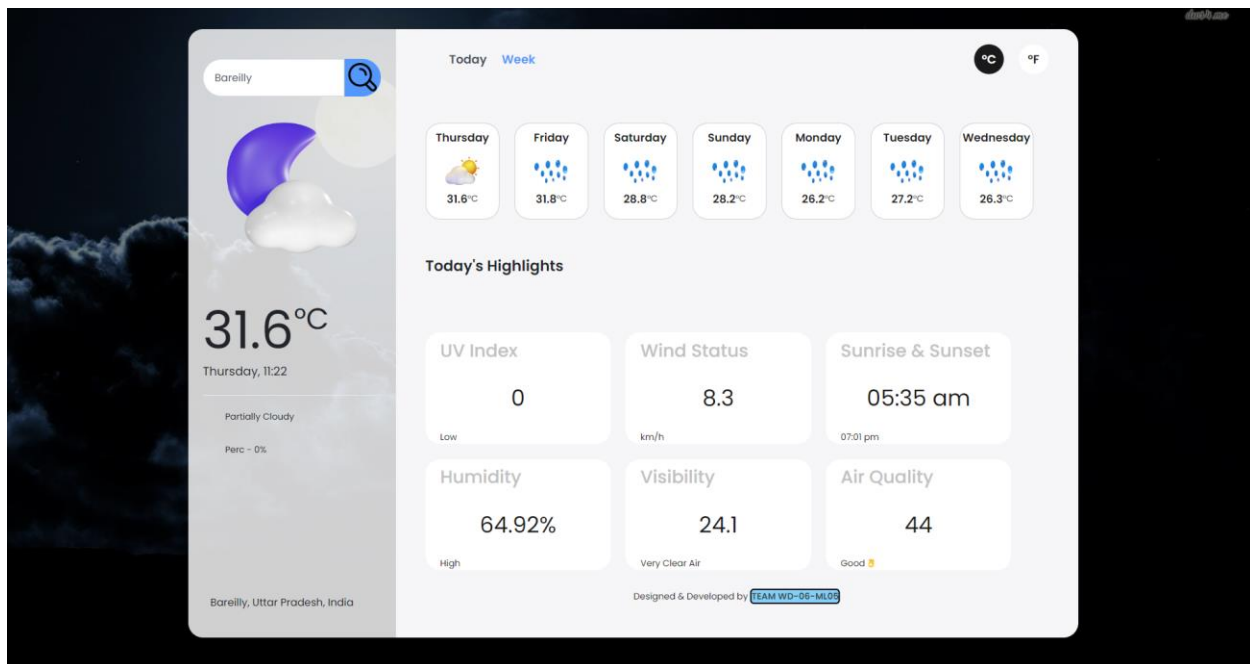
Batch : June 2023

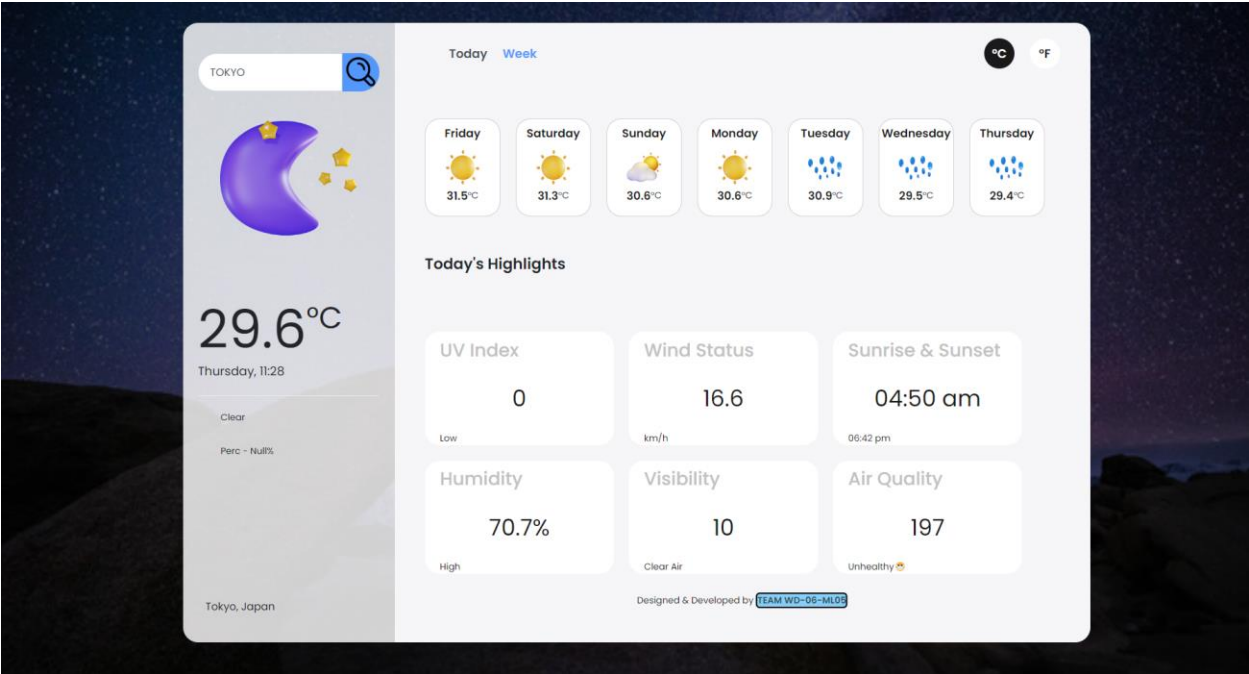
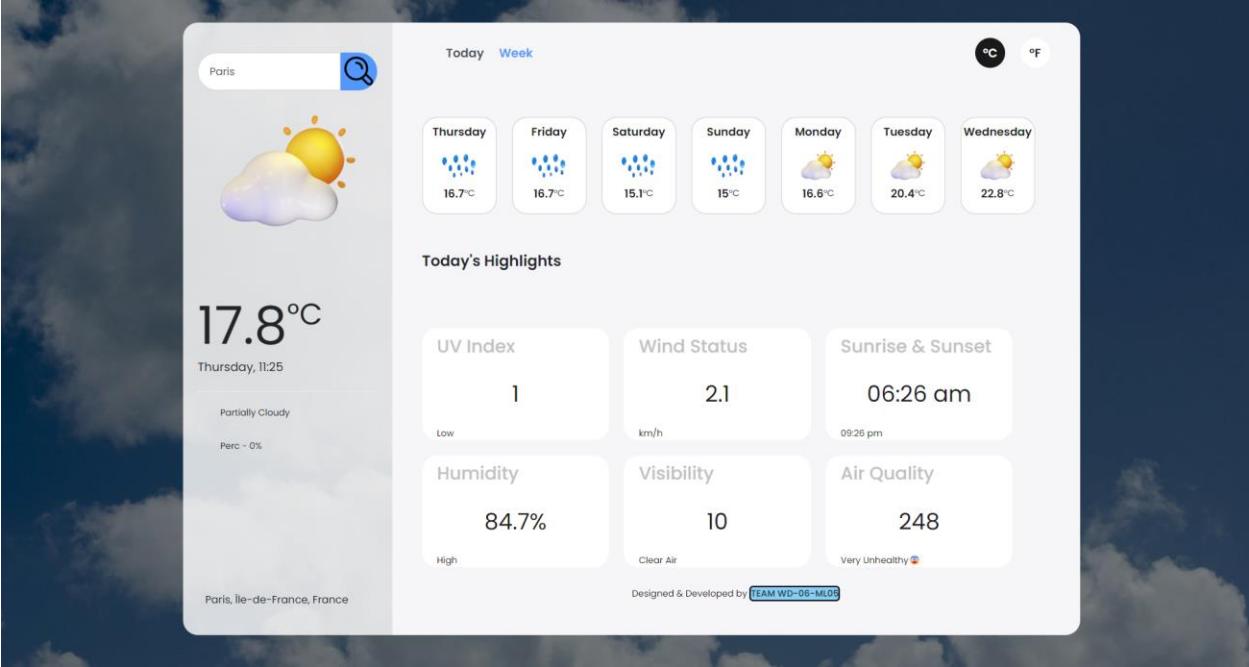
Website Name : <https://aak-2211.github.io/MAJOR-WD-06-ML05/>

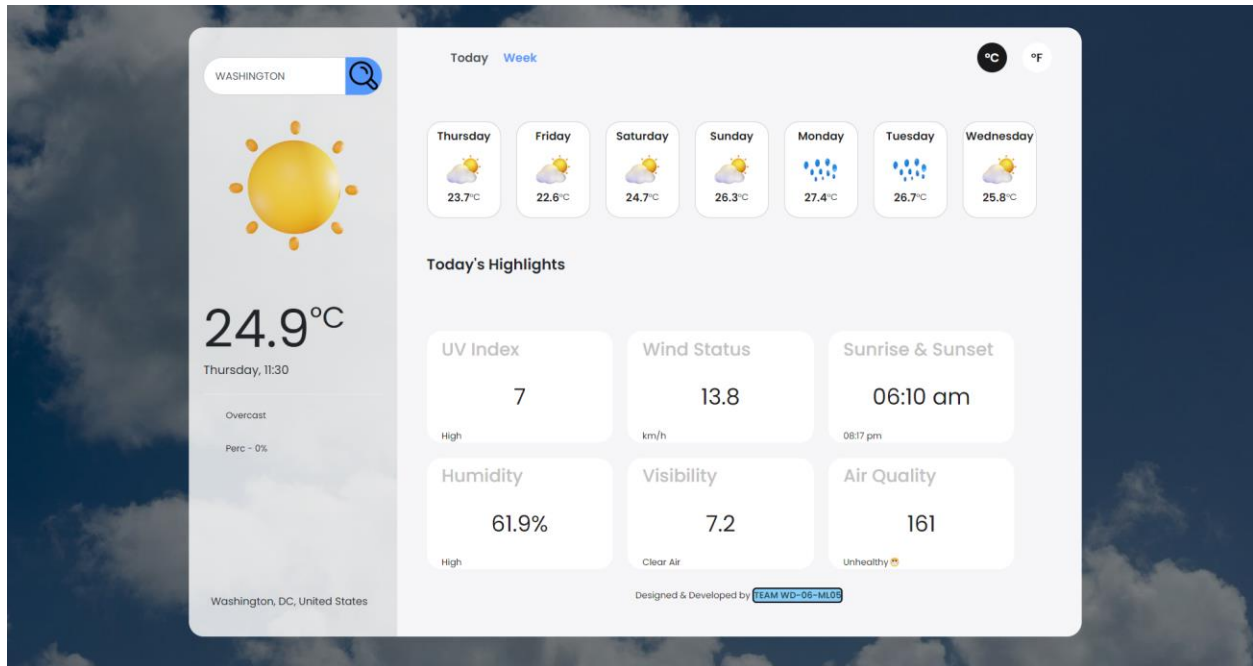
Topic : Weather Forecast Web App

OUTPUTS:









SOURCE CODE:

HTML CODE (File name: **index.html**)

```
<!doctype html>

<html lang="en">

  <head>

    <meta charset="utf-8">

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

    <title>Weather App</title>

    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
9ndCyUaIbzAi2FUVXJi0CjmCapSmO7SnpJef0486qhLnuZ2cdeRhO02iuK6FUUVM"
crossorigin="anonymous">

    <link rel="stylesheet" href="style.css" type="text/css">

  </head>

  <body>

    <div class="wrapper">
```

```
<div class="sidebar">

<div>

  <form class="search" id="search">

    <input type="text" id="query" placeholder="Type Your City Name" />

    <button><i class="fas fa-search"></i></button>

  </form>

  <div class="weather-icon">

  </div>

  <div class="temperature">

    <h1 id="temp">0</h1>

    <span class="temp-unit">°C</span>

  </div>

  <div class="date-time">

    <p id="date-time">Monday, 12:00</p>

  </div>

  <div class="divider"></div>

  <div class="condition-rain">

    <div class="condition">

      <i class="fas fa-cloud"></i>

      <p id="condition">condition</p>

    </div>

    <div class="rain">

      <i class="fas fa-tint"></i>

      <p id="rain">perc - 0%</p>

    </div>

  </div>

</div>
```

```
<div class="location">

  <div class="location-icon">

    <i class="fas fa-map-marker-alt"></i>

  </div>

  <div class="location-text">

    <p id="location">location</p>

  </div>

</div>

</div>

<div class="main">

  <nav>

    <ul class="options">

      <button class="hourly">today</button>

      <button class="week active">week</button>

    </ul>

    <ul class="options units">

      <button class="celcius active">°C</button>

      <button class="fahrenheit">°F</button>

    </ul>

  </nav>

  <div class="cards" id="weather-cards"></div>

  <div class="highlights">

    <h2 class="heading">today's highlights</h2>

    <div class="cards">

      <div class="card2">

        <h4 class="card-heading">UV Index</h4>

        <div class="content">

          <p class="uv-index">0</p>

          <p class="uv-text">Low</p>

        </div>

      </div>

    </div>

  </div>

</div>
```

</div>

</div>

<div class="card2">

<h4 class="card-heading">Wind Status</h4>

<div class="content">

<p class="wind-speed">0</p>

<p>km/h</p>

</div>

</div>

<div class="card2">

<h4 class="card-heading">Sunrise & Sunset</h4>

<div class="content">

<p class="sun-rise">0</p>

<p class="sun-set">0</p>

</div>

</div>

<div class="card2">

<h4 class="card-heading">Humidity</h4>

<div class="content">

<p class="humidity">0</p>

<p class="humidity-status">Normal</p>

</div>

</div>

<div class="card2">

<h4 class="card-heading">Visibility</h4>

<div class="content">

<p class="visibilty">0</p>

<p class="visibilty-status">Normal</p>

</div>

```

</div>

<div class="card2">

  <h4 class="card-heading">Air Quality</h4>

  <div class="content">

    <p class="air-quality">0</p>

    <p class="air-quality-status">Normal</p>

  </div>

</div>

</div>

</div>

  <p class="credits">Designed & Developed by <a href="https://www.linkedin.com/in/arshad-ali-bab2b9217/">TEAM WD-06-ML05 </a></p>

</div>

</div>

  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/js/bootstrap.bundle.min.js"
  integrity="sha384-geWF76RCwLtnZ8qwWowPQNguL3RmwHVBC9FhGdlKrxdiJJigb/j/68Sly3Te4Bkz"
  crossorigin="anonymous"></script>

  <script src="script.js"></script>

</body>

</html>

```

CSS CODE(File name: **style.css**)

```
@import url("https://fonts.googleapis.com/css2?family=Poppins:wght@400;500;600&display=swap");
```

```
:root {
  --primary-color: #5598fd;
}
```

```
* {
```



```
margin: 0;

padding: 0;

box-sizing: border-box;

font-family: "Poppins", sans-serif;
}

body {

display: flex;

justify-content: center;

min-height: 100vh;

min-width: 1000px;

padding: 50px;

background: var(--primary-color);

background-image: linear-gradient(rgba(0, 0, 0, 0.5), rgba(0, 0, 0, 0.5)),

    url("../images/cd.jpg");

background-size: cover;

background-position: center;

transition: background-image 0.3s ease;

}

img {

width: 100%;

}

.wrapper {

display: flex;

width: 1200px;

min-width: 900px;

border-radius: 20px;

overflow: hidden;

}

.sidebar {
```

```
width: 30%;  
min-width: 250px;  
padding: 20px;  
background: rgba(255, 255, 255, 0.815);  
display: flex;  
flex-direction: column;  
justify-content: space-between;  
}
```

```
.search {  
  display: flex;  
  align-items: center;  
  justify-content: space-between;  
  margin-bottom: 30px;  
  margin-top: 20px;  
  position: relative;  
}
```

```
.search input {  
  width: 100%;  
  height: 50px;  
  border: 1px solid #ced4da;  
  border-top-left-radius: 25px;  
  border-bottom-left-radius: 25px;  
  padding: 0 15px;  
  font-size: 14px;  
  color: #495057;  
}
```

```
.search input:focus {  
  outline: none;
```

```
border: 1px solid var(--primary-color);  
}
```

```
.search button {  
  min-width: 40px;  
  height: 50px;  
  border: none;  
  border-top-right-radius: 25px;  
  border-bottom-right-radius: 25px;  
  background: var(--primary-color);  
  color: #fff;  
  font-size: 14px;  
  cursor: pointer;  
}
```

```
.search button:hover {  
  background-color: #3e1af3;  
}
```

```
.search ul {  
  max-height: 300px;  
  overflow-y: auto;  
  position: absolute;  
  width: 100%;  
  top: 40px;  
  border-radius: 5px;  
  transition: all 0.3s ease;  
  box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);  
  background-color: #fff;  
}
```

```
.search ul li {  
    padding: 10px 15px;  
    border-bottom: 1px solid #f1f1f1;  
    cursor: pointer;  
    text-transform: capitalize;  
}  
.search ul li:last-child {  
    border-bottom: none;  
}  
.search ul li:hover {  
    background-color: #f1f1f1;  
}  
.search ul li.active {  
    background-color: #f1f1f1;  
}  
.weather-icon {  
    width: 100%;  
    height: 150px;  
    text-align: center;  
    margin-top: 20px;  
    margin-bottom: 100px;  
}  
.weather-icon #icon {  
    width: 80%;  
    object-fit: cover;  
}  
.temperature {  
    display: flex;  
}
```

```
.temperature #temp {  
    font-size: 70px;  
    font-weight: 100;  
    line-height: 1;  
}  
  
.temperature span {  
    font-size: 40px;  
    margin-top: -10px;  
    display: block;  
}  
  
.divider {  
    width: 100%;  
    height: 1px;  
    background: #e9ecef;  
    margin: 20px 0;  
}  
  
.condition-rain {  
    font-size: 12px;  
    text-transform: capitalize;  
}  
  
.condition-rain div {  
    display: flex;  
    align-items: center;  
    gap: 10px;  
    margin-bottom: 10px;  
}  
  
.condition-rain div i {  
    width: 20px;  
}
```

```
.location {  
  display: flex;  
  align-items: center;  
  font-size: 14px;  
  gap: 10px;  
  margin-top: 10px;  
}  
  
.main {  
  width: 100%;  
  min-width: 400px;  
  padding: 20px 40px;  
  background-color: #f6f6f8;  
  position: relative;  
  padding-bottom: 90px;  
}  
  
.main nav {  
  display: flex;  
  align-items: center;  
  justify-content: space-between;  
}  
  
.main nav .options {  
  display: flex;  
  gap: 20px;  
  align-items: center;  
}  
  
.main nav .options button {  
  border: none;  
  background: none;
```

```
font-size: 16px;
font-weight: 600;
color: #495057;
cursor: pointer;
text-transform: capitalize;
}
.main nav .options button.active {
  color: var(--primary-color);
}
```

```
.main nav .units button {
  width: 40px;
  height: 40px;
  border-radius: 50%;
  color: #1a1a1a;
  background-color: #fff;
}
```

```
.main nav .units button.active {
  color: #fff;
  background-color: #1a1a1a;
}
```

```
.main .cards {
  display: flex;
  flex-wrap: wrap;
  gap: 20px;
  margin-top: 50px;
}
```

```
.cards .card {
```

```
width: 100px;
height: 130px;
border-radius: 20px;
color: #1a1a1a;
background-color: #fff;
text-align: center;
padding: 10px 0;
display: flex;
flex-direction: column;
justify-content: space-between;
}
.card h2 {
  font-size: 15px;
  font-weight: 600;
}
.card .card-icon {
  width: 50%;
  margin: 0 auto;
}
.card .day-temp {
  font-size: 12px;
  display: flex;
  justify-content: center;
  display: flex;
}
.highlights {
  display: flex;
  flex-wrap: wrap;
  gap: 20px;
```



```
    margin-top: 50px;
}
.highlights .heading {
    width: 100%;
    font-size: 20px;
    font-weight: 600;
    text-transform: capitalize;
}
```

```
.card2 {
    width: 250px;
    height: 150px;
    border-radius: 20px;
    color: #1a1a1a;
    background-color: #fff;
    padding: 10px 20px;
    display: flex;
    flex-direction: column;
}
```

```
.card2 .card-heading {
    color: #c2c2c2;
}
```

```
.card2 .content {
    margin-top: 20px;
}
```

```
.card2 .content p:first-child {
    text-align: center;
    font-size: 30px;
```

```
}  
.card2 .content p:nth-child(2) {  
    font-size: 12px;  
    margin-top: 20px;  
    text-align: left;  
}  
.credits {  
    text-align: center;  
    font-size: 12px;  
    color: #1a1a1a;  
    position: absolute;  
    bottom: 30px;  
    left: 50%;  
    transform: translateX(-50%);  
}  
.credits a {  
    color: darkslategrey;  
    text-decoration: none;  
    font-weight: bolder;  
    border: 2px solid black;  
    border-radius: 5px 5px;  
    background-color: lightskyblue;  
}  
.credits a: hover {  
    background-color: bisque;  
    color: red;  
    border-color: red;  
}
```

JS CODE (File name: **script.js**)

```
// const options = {  
//     method: 'GET',  
//     headers: {  
//         'X-RapidAPI-Key': '77a45e249cmsh792cd7445b30ea1p146476jsna8123226ed35',  
//         'X-RapidAPI-Host': 'weather-by-api-ninjas.p.rapidapi.com'  
//     }  
// };  
  
// fetch('https://weather-by-api-ninjas.p.rapidapi.com/v1/weather?units=metric&q=Delhi', options)  
//     .then(response => response.json())  
//     .then(response => console.log(response))  
//     .then(err => console.error(err));
```

```
const temp = document.getElementById("temp"),  
date = document.getElementById("date-time"),  
condition = document.getElementById("condition"),  
rain = document.getElementById("rain"),  
mainIcon = document.getElementById("icon"),  
currentLocation = document.getElementById("location"),  
uvIndex = document.querySelector(".uv-index"),  
uvText = document.querySelector(".uv-text"),  
windSpeed = document.querySelector(".wind-speed"),  
sunRise = document.querySelector(".sun-rise"),  
sunSet = document.querySelector(".sun-set"),  
humidity = document.querySelector(".humidity"),  
visibilty = document.querySelector(".visibilty"),  
humidityStatus = document.querySelector(".humidity-status"),
```

```
airQuality = document.querySelector(".air-quality"),
airQualityStatus = document.querySelector(".air-quality-status"),
visibilityStatus = document.querySelector(".visibilty-status"),
searchForm = document.querySelector("#search"),
search = document.querySelector("#query"),
celciusBtn = document.querySelector(".celcius"),
fahrenheitBtn = document.querySelector(".fahrenheit"),
tempUnit = document.querySelectorAll(".temp-unit"),
hourlyBtn = document.querySelector(".hourly"),
weekBtn = document.querySelector(".week"),
weatherCards = document.querySelector("#weather-cards");
```

```
let currentCity = "";
```

```
let currentUnit = "c";
```

```
let hourlyorWeek = "week";
```

```
// function to get date and time
```

```
function getDateTime() {
```

```
    let now = new Date(),
```

```
    hour = now.getHours(),
```

```
    minute = now.getMinutes();
```

```
let days = [
```

```
    "Sunday",
```

```
    "Monday",
```

```
    "Tuesday",
```

```
    "Wednesday",
```

```
    "Thursday",
```

```
    "Friday",
```

```

    "Saturday"
  ];
  // 12 hours format
  hour = hour % 12;
  if (hour < 10) {
    hour = "0" + hour;
  }
  if (minute < 10) {
    minute = "0" + minute;
  }
  let dayString = days[now.getDay()];
  return `${dayString}, ${hour}:${minute}`;
}

```

```

//Updating date and time
date.innerText = getDateTime();
setInterval(() => {
  date.innerText = getDateTime();
}, 1000);

```

```

// function to get public ip address
function getPublicIp() {
  fetch("https://geolocation-db.com/json/", {
    method: "GET",
    headers: {}
  })
  .then((response) => response.json())
  .then((data) => {
    currentCity = data.city;
  })
}

```

```

    getWeatherData(data.city, currentUnit, hourlyorWeek);
  })
  .catch((err) => {
    console.error(err);
  });
}

```

```

getPublicIp();

```

```

// function to get weather data

```

```

function getWeatherData(city, unit, hourlyorWeek) {
  fetch(

`https://weather.visualcrossing.com/VisualCrossingWebServices/rest/services/timeline/${city}?unitGroup=metric&key=EJ6UBL2JEQGYB3AA4ENASN62J&contentType=json`,

    {
      method: "GET",
      headers: {}
    }
  )
  .then((response) => response.json())
  .then((data) => {
    let today = data.currentConditions;
    if (unit === "c") {
      temp.innerText = today.temp;
    } else {
      temp.innerText = celciusToFahrenheit(today.temp);
    }
    currentLocation.innerText = data.resolvedAddress;
  });
}

```

```

condition.innerText = today.conditions;
rain.innerText = "Perc - " + today.precip + "%";
uvIndex.innerText = today.uvindex;
windSpeed.innerText = today.windspeed;
measureUvIndex(today.uvindex);
mainIcon.src = getIcon(today.icon);
changeBackground(today.icon);
humidity.innerText = today.humidity + "%";
updateHumidityStatus(today.humidity);
visibilty.innerText = today.visibility;
updateVisibiltyStatus(today.visibility);
airQuality.innerText = today.winddir;
updateAirQualityStatus(today.winddir);
if (hourlyorWeek === "hourly") {
    updateForecast(data.days[0].hours, unit, "day");
} else {
    updateForecast(data.days, unit, "week");
}
sunRise.innerText = covertTimeTo12HourFormat(today.sunrise);
sunSet.innerText = covertTimeTo12HourFormat(today.sunset);
})
.catch((err) => {
    alert("City not found in our database");
});
}

```

//function to update Forecast

```

function updateForecast(data, unit, type) {
    weatherCards.innerHTML = "";

```

```
let day = 0;

let numCards = 0;

if (type === "day") {
    numCards = 24;
} else {
    numCards = 7;
}

for (let i = 0; i < numCards; i++) {
    let card = document.createElement("div");
    card.classList.add("card");

    let dayName = getHour(data[day].datetime);

    if (type === "week") {
        dayName = getDayName(data[day].datetime);
    }

    let dayTemp = data[day].temp;

    if (unit === "f") {
        dayTemp = celciusToFahrenheit(data[day].temp);
    }

    let iconCondition = data[day].icon;
    let iconSrc = getIcon(iconCondition);

    let tempUnit = "°C";

    if (unit === "f") {
        tempUnit = "°F";
    }

    card.innerHTML = `
        <h2 class="day-name">${dayName}</h2>
        <div class="card-icon">
            
        </div>
    `
}
```



```

        <div class="day-temp">

            <h2 class="temp">${dayTemp}</h2>

            <span class="temp-unit">${tempUnit}</span>

        </div>

`;

weatherCards.appendChild(card);

day++;

}

}

// function to change weather icons
function getIcon(condition) {
    if (condition === "partly-cloudy-day") {
        return "https://i.ibb.co/PZQXH8V/27.png";
    } else if (condition === "partly-cloudy-night") {
        return "https://i.ibb.co/Kzkk59k/15.png";
    } else if (condition === "rain") {
        return "https://i.ibb.co/kBd2NTS/39.png";
    } else if (condition === "clear-day") {
        return "https://i.ibb.co/rb4rrJL/26.png";
    } else if (condition === "clear-night") {
        return "https://i.ibb.co/1nxNGHL/10.png";
    } else {
        return "https://i.ibb.co/rb4rrJL/26.png";
    }
}

// function to change background depending on weather conditions
function changeBackground(condition) {

```

```
const body = document.querySelector("body");
let bg = "";
if (condition === "partly-cloudy-day") {
  bg = "https://i.ibb.co/qNv7NxZ/pc.webp";
} else if (condition === "partly-cloudy-night") {
  bg = "https://i.ibb.co/RDfPqXz/pcn.jpg";
} else if (condition === "rain") {
  bg = "https://i.ibb.co/h2p6Yhd/rain.webp";
} else if (condition === "clear-day") {
  bg = "https://i.ibb.co/WGry01m/cd.jpg";
} else if (condition === "clear-night") {
  bg = "https://i.ibb.co/kqtZ1Gx/cn.jpg";
} else {
  bg = "https://i.ibb.co/qNv7NxZ/pc.webp";
}
body.style.backgroundImage = `linear-gradient( rgba(0, 0, 0, 0.5), rgba(0, 0, 0, 0.5) ),url(${bg})`;
}
```

```
//get hours from hh:mm:ss
```

```
function getHour(time) {
  let hour = time.split(":")[0];
  let min = time.split(":")[1];
  if (hour > 12) {
    hour = hour - 12;
    return `${hour}:${min} PM`;
  } else {
    return `${hour}:${min} AM`;
  }
}
```

```
// convert time to 12 hour format
function covertTimeTo12HourFormat(time) {
    let hour = time.split(":")[0];
    let minute = time.split(":")[1];
    let ampm = hour >= 12 ? "pm" : "am";
    hour = hour % 12;
    hour = hour ? hour : 12; // the hour '0' should be '12'
    hour = hour < 10 ? "0" + hour : hour;
    minute = minute < 10 ? minute : minute;
    let strTime = hour + ":" + minute + " " + ampm;
    return strTime;
}
```

```
// function to get day name from date
```

```
function getDayName(date) {
    let day = new Date(date);
    let days = [
        "Sunday",
        "Monday",
        "Tuesday",
        "Wednesday",
        "Thursday",
        "Friday",
        "Saturday"
    ];
    return days[day.getDay()];
}
```

```
// function to get uv index status
function measureUvIndex(uvIndex) {
  if (uvIndex <= 2) {
    uvText.innerText = "Low";
  } else if (uvIndex <= 5) {
    uvText.innerText = "Moderate";
  } else if (uvIndex <= 7) {
    uvText.innerText = "High";
  } else if (uvIndex <= 10) {
    uvText.innerText = "Very High";
  } else {
    uvText.innerText = "Extreme";
  }
}
```

```
// function to get humidity status
function updateHumidityStatus(humidity) {
  if (humidity <= 30) {
    humidityStatus.innerText = "Low";
  } else if (humidity <= 60) {
    humidityStatus.innerText = "Moderate";
  } else {
    humidityStatus.innerText = "High";
  }
}
```

```
// function to get visibility status
function updateVisibiltyStatus(visibility) {
  if (visibility <= 0.03) {
```

```
visibilityStatus.innerText = "Dense Fog";
} else if (visibility <= 0.16) {
    visibilityStatus.innerText = "Moderate Fog";
} else if (visibility <= 0.35) {
    visibilityStatus.innerText = "Light Fog";
} else if (visibility <= 1.13) {
    visibilityStatus.innerText = "Very Light Fog";
} else if (visibility <= 2.16) {
    visibilityStatus.innerText = "Light Mist";
} else if (visibility <= 5.4) {
    visibilityStatus.innerText = "Very Light Mist";
} else if (visibility <= 10.8) {
    visibilityStatus.innerText = "Clear Air";
} else {
    visibilityStatus.innerText = "Very Clear Air";
}
}
```

// function to get air quality status

```
function updateAirQualityStatus(airquality) {
    if (airquality <= 50) {
        airQualityStatus.innerText = "Good 🟢 ";
    } else if (airquality <= 100) {
        airQualityStatus.innerText = "Moderate 🟡 ";
    } else if (airquality <= 150) {
        airQualityStatus.innerText = "Unhealthy for Sensitive Groups 🟠 ";
    } else if (airquality <= 200) {
        airQualityStatus.innerText = "Unhealthy 🔴 ";
    }
}
```

```
} else if (airquality <= 250) {  
    airQualityStatus.innerText = "Very Unhealthy 🤮";  
} else {  
    airQualityStatus.innerText = "Hazardous 🚨";  
}  
}
```

```
// function to handle search form
```

```
searchForm.addEventListener("submit", (e) => {  
    e.preventDefault();  
    let location = search.value;  
    if (location) {  
        currentCity = location;  
        getWeatherData(location, currentUnit, hourlyorWeek);  
    }  
});
```

```
// function to conver celcius to fahrenheit
```

```
function celciusToFahrenheit(temp) {  
    return ((temp * 9) / 5 + 32).toFixed(1);  
}
```

```
var currentFocus;
```

```
search.addEventListener("input", function (e) {  
    removeSuggestions();  
    var a,  
        b,  
        i,  
        val = this.value;
```

```

if (!val) {
    return false;
}

currentFocus = -1;

a = document.createElement("ul");
a.setAttribute("id", "suggestions");

this.parentNode.appendChild(a);

for (i = 0; i < cities.length; i++) {
    /*check if the item starts with the same letters as the text field value:*/
    if (
        cities[i].name.substr(0, val.length).toUpperCase() == val.toUpperCase()
    ) {
        /*create a li element for each matching element:*/
        b = document.createElement("li");
        /*make the matching letters bold:*/
        b.innerHTML =
            "<strong>" + cities[i].name.substr(0, val.length) + "</strong>";
        b.innerHTML += cities[i].name.substr(val.length);
        /*insert a input field that will hold the current array item's value:*/
        b.innerHTML += "<input type='hidden' value='" + cities[i].name + "'>";
        /*execute a function when someone clicks on the item value (DIV element):*/
        b.addEventListener("click", function (e) {
            /*insert the value for the autocomplete text field:*/
            search.value = this.getElementsByTagName("input")[0].value;
            removeSuggestions();
        });
    }
}

```

```

        a.appendChild(b);
    }
}
});

/*execute a function presses a key on the keyboard:*/
search.addEventListener("keydown", function (e) {
    var x = document.getElementById("suggestions");
    if (x) x = x.getElementsByTagName("li");
    if (e.keyCode == 40) {
        /*If the arrow DOWN key
        is pressed,
        increase the currentFocus variable:*/
        currentFocus++;
        /*and and make the current item more visible:*/
        addActive(x);
    } else if (e.keyCode == 38) {
        /*If the arrow UP key
        is pressed,
        decrease the currentFocus variable:*/
        currentFocus--;
        /*and and make the current item more visible:*/
        addActive(x);
    }
    if (e.keyCode == 13) {
        /*If the ENTER key is pressed, prevent the form from being submitted,*/
        e.preventDefault();
        if (currentFocus > -1) {
            /*and simulate a click on the "active" item:*/

```



```

        if (x) x[currentFocus].click();
    }
}
});

function addActive(x) {
    /*a function to classify an item as "active":*/
    if (!x) return false;
    /*start by removing the "active" class on all items:*/
    removeActive(x);
    if (currentFocus >= x.length) currentFocus = 0;
    if (currentFocus < 0) currentFocus = x.length - 1;
    /*add class "autocomplete-active":*/
    x[currentFocus].classList.add("active");
}

function removeActive(x) {
    /*a function to remove the "active" class from all autocomplete items:*/
    for (var i = 0; i < x.length; i++) {
        x[i].classList.remove("active");
    }
}

function removeSuggestions() {
    var x = document.getElementById("suggestions");
    if (x) x.parentNode.removeChild(x);
}

fahrenheitBtn.addEventListener("click", () => {
    changeUnit("f");
});

```

```
celciusBtn.addEventListener("click", () => {  
    changeUnit("c");  
});  
  
// function to change unit  
function changeUnit(unit) {  
    if (currentUnit !== unit) {  
        currentUnit = unit;  
        tempUnit.forEach((elem) => {  
            elem.innerText = `${unit.toUpperCase()}`;  
        });  
        if (unit === "c") {  
            celciusBtn.classList.add("active");  
            fahrenheitBtn.classList.remove("active");  
        } else {  
            celciusBtn.classList.remove("active");  
            fahrenheitBtn.classList.add("active");  
        }  
        getWeatherData(currentCity, currentUnit, hourlyorWeek);  
    }  
}
```

```
hourlyBtn.addEventListener("click", () => {  
    changeTimeSpan("hourly");  
});  
weekBtn.addEventListener("click", () => {  
    changeTimeSpan("week");  
});
```

```
// function to change hourly to weekly or vice versa

function changeTimeSpan(unit) {
  if (hourlyorWeek !== unit) {
    hourlyorWeek = unit;
    if (unit === "hourly") {
      hourlyBtn.classList.add("active");
      weekBtn.classList.remove("active");
    } else {
      hourlyBtn.classList.remove("active");
      weekBtn.classList.add("active");
    }
    getWeatherData(currentCity, currentUnit, hourlyorWeek);
  }
}
```

// Cities add your own to get in search

```
cities = [
  {
    country: "in",
    name: "Delhi",
    lat: "28.679079",
    lng: "77.069710",
  },
  {
    country: "in",
    name: "New Delhi",
    lat: "28.6139",
```

```
    lng: "77.2090",  
  },  
  {  
    country: "in",  
    name: "Agra",  
    lat: "27.17042035",  
    lng: "78.01502071",  
  },  
  {  
    country: "in",  
    name: "Aligarh",  
    lat: "27.89221092",  
    lng: "78.06178788",  
  },  
  {  
    country: "in",  
    name: "Lucknow",  
    lat: "30.67791",  
    lng: "71.74344",  
  },  
  {  
    country: "in",  
    name: "Allahabad",  
    lat: "25.45499534",  
    lng: "81.84000688",  
  },  
  {  
    country: "in",  
    name: "Bareilly",
```

```
lat: "28.34538739",  
lng: "79.41999955",  
},  
{  
  country: "in",  
  name: "Budaun",  
  lat: "28.03000612",  
  lng: "79.08999385",  
},  
{  
  country: "in",  
  name: "Bulandshahr",  
  lat: "28.4103705",  
  lng: "77.84841589",  
},  
{  
  country: "in",  
  name: "Etawah",  
  lat: "26.78545677",  
  lng: "79.01495968",  
},  
{  
  country: "in",  
  name: "Faizabad",  
  lat: "26.75039431",  
  lng: "82.17001257",  
},  
{  
  country: "in",
```

```
name: "Fatehpur",
lat: "25.88036989",
lng: "80.80001868",
},
{
  country: "in",
  name: "Farrukhabad",
  lat: "27.387049",
  lng: "79.588127",
},
{
  country: "in",
  name: "Ghaziabad",
  lat: "28.66038108",
  lng: "77.40839107",
},
{
  country: "in",
  name: "Gorakhpur",
  lat: "26.75039431",
  lng: "83.38001623",
},
{
  country: "in",
  name: "Jaipur",
  lat: "26.922070",
  lng: "75.778885",
},
{
```

```
country: "in",
name: "Jodhpur",
lat: "26.223370",
lng: "72.998917",
},
{
country: "in",
name: "Udaipur",
lat: "24.571270",
lng: "73.691544",
},
{
country: "in",
name: "Jaisalmer",
lat: "26.9157",
lng: "70.9083",
},
{
country: "in",
name: "Patna",
lat: "25.5941",
lng: "85.1376",
},
{
country: "in",
name: "Kanpur",
lat: "26.4499",
lng: "80.3319",
},
```

```
{  
  country: "in",  
  name: "Kolkata",  
  lat: "22.5726",  
  lng: "88.363892",  
},  
{  
  country: "in",  
  name: "Mumbai",  
  lat: "19.076090",  
  lng: "72.877426",  
},  
];
```