Weather application:

Code1:

Html:

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
    <link rel="stylesheet" href="weather2.css">
    <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css
" integrity="sha384-
JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
crossorigin="anonymous"/>
    <script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"
integrity="sha384-
DfXdz2htPH0lsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+IbbVYUew+OrCXaRkfj"
crossorigin="anonymous"></script>
    <script
src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"
integrity="sha384-
9/reFTGAW83EW2RDu2S0VKaIzap3H66lZH81PoYlFhbGU+6BZp6G7niu735Sk7lN"
crossorigin="anonymous"></script>
    <script
src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"
integrity="sha384-
B4gt1jrGC7Jh4AgTPSdUtOBvfO8shuf57BaghqFfPlYxofvL8/KUEfYiJOMMV+rV"
crossorigin="anonymous"></script>
</head>
<body>
    <div class="card">
        <div class="search">
            <input type="text" placeholder="enter center name"
spellcheck="false">
            <button><img
src="https://res.cloudinary.com/dcladcqtf/image/upload/v1691075773/search_l9wp
sd.png" /></button>

        </div>
        <div class="error">
            <p>Invalid city name</p>
        </div>
        <div class="weather">
            <img
src="https://res.cloudinary.com/dcladcqtf/image/upload/v1691077192/rain_mfcxta
.png" class="weather-icon" />
```

```html
        <h1 class="temp">22°C</h1>
        <h2 class="city">New York </h2>
        <div class="details">
            <div class="col">
                <img
src="https://res.cloudinary.com/dcladcqtf/image/upload/v1691077514/humidity_r1
hegu.png" />
                <div>
                    <p class="humidity">50%</p>
                    <p>Humidity</p>
                </div>
            </div>
            <div class="col">
                <img
src="https://res.cloudinary.com/dcladcqtf/image/upload/v1691077732/wind_qkwsx8
.png" />
                <div>
                    <p class="wind">15 km/h</p>
                    <p>Wind Speed</p>
                </div>
            </div>
        </div>
    </div>
</div>
<script>
    const apiKey = "49e31ef846e1c4102dd48b0235533e96";
    const apiUrl =
"https://api.openweathermap.org/data/2.5/weather?units=metric&q=";
    const searchBox = document.querySelector(".search input");
    const searchBtn = document.querySelector(".search button");
    const weatherIcon = document.querySelector(".weather-icon");
    async function checkWeather(city) {
        const responce = await fetch(apiUrl + city + `&appid=${apiKey}`);
        if (responce.status == 404) {
            document.querySelector(".error").style.display = "block";
            document.querySelector(".weather").style.display = "none";
        } else {
            var data = await responce.json();
            console.log(data);
            document.querySelector(".city").innerHTML = data.name;
            document.querySelector(".temp").innerHTML =
Math.round(data.main.temp) + "°C";
            document.querySelector(".humidity").innerHTML =
data.main.humidity + "%";
            document.querySelector(".wind").innerHTML = data.wind.speed +
"km/h";

            if (data.weather[0].main == "Clouds") {
```

```javascript
                weatherIcon.src =
"https://res.cloudinary.com/dcladcqtf/image/upload/v1691087383/clouds_whbpup.p
ng";
                } else if (data.weather[0].main == "Clear") {
                    weatherIcon.src =
"https://res.cloudinary.com/dcladcqtf/image/upload/v1691087405/clear_mwhdrp.pn
g";
                } else if (data.weather[0].main == "Rain") {
                    weatherIcon.src =
"https://res.cloudinary.com/dcladcqtf/image/upload/v1691077192/rain_mfcxta.png
";
                } else if (data.weather[0].main == "Drizzle") {
                    weatherIcon.src =
"https://res.cloudinary.com/dcladcqtf/image/upload/v1691087716/drizzle_mudadf.
png";
                } else if (data.weather[0].main == "Mist") {
                    weatherIcon.src =
"https://res.cloudinary.com/dcladcqtf/image/upload/v1691087416/mist_azeqrf.png
";
                }
                document.querySelector(".weather").style.display = "block";
                document.querySelector(".error").style.display = "none";
            }
        }
        searchBtn.addEventListener("click", () => {
            checkWeather(searchBox.value);
        })
    </script>

</body>
</html>
```

CSS:

```css
@import
url('https://fonts.googleapis.com/css2?family=Bree+Serif&family=Caveat:wght@40
0;700&family=Lobster&family=Monoton&family=Open+Sans:ital,wght@0,400;0,700;1,4
00;1,700&family=Playfair+Display+SC:ital,wght@0,400;0,700;1,700&family=Playfai
r+Display:ital,wght@0,400;0,700;1,700&family=Roboto:ital,wght@0,400;0,700;1,40
0;1,700&family=Source+Sans+Pro:ital,wght@0,400;0,700;1,700&family=Work+Sans:it
al,wght@0,400;0,700;1,700&display=swap');

* {
    margin: 0;
    font-family: 'Poppins', Sans-Serif;
    box-sizing: border-box;
    padding: 0;
}

body {
```

```css
    background-color: #222;
}

.card {
    width: 90%;
    max-width: 470px;
    background: linear-gradient(135deg, #00feba, #5b548a);
    color: #fff;
    margin: 100px auto 0;
    border-radius: 20px;
    padding: 40px 35px;
    text-align: center;
}

.search {
    width: 100%;
    display: felx;
    align-items: center;
    justify-content: space-between;
}

.search input {
    border: 0;
    outline: 0;
    background: #ebfffc;
    color: #555;
    padding: 10px 25px;
    height: 60px;
    border-radius: 30px;
    flex: 1;
    margin-right: 16px;
    font-size: 18px;
}

.search button {
    border: 0;
    outline: 0;
    background: #ebfffc;
    border-radius: 50%;
    width: 60px;
    height: 60px;
    cursor: pointer;
}

.search button img {
    width: 16px;
}
```

```css
.weather-icon {
    width: 170px;
    margin-top: 30px;
}

.weather h1 {
    font-size: 80px;
    font-weight: 500;
}

.weather h2 {
    font-size: 45px;
    font-weight: 400;
    margin-top: -10px;
}

.details {
    display: flex;
    align-items: center;
    justify-content: space-between;
    padding: 0 20px;
    margin-top: 50px;
}

.col {
    display: flex;
    align-items: center;
    text-align: left;
}

.col img {
    width: 40px;
    margin-right: 10px;
}

.humidity,
.wind {
    font-size: 28px;
    margin-top: -6px;
}

.weather {
    display: none;
}

.error {
    text-align: left;
    margin-left: 10px;
```
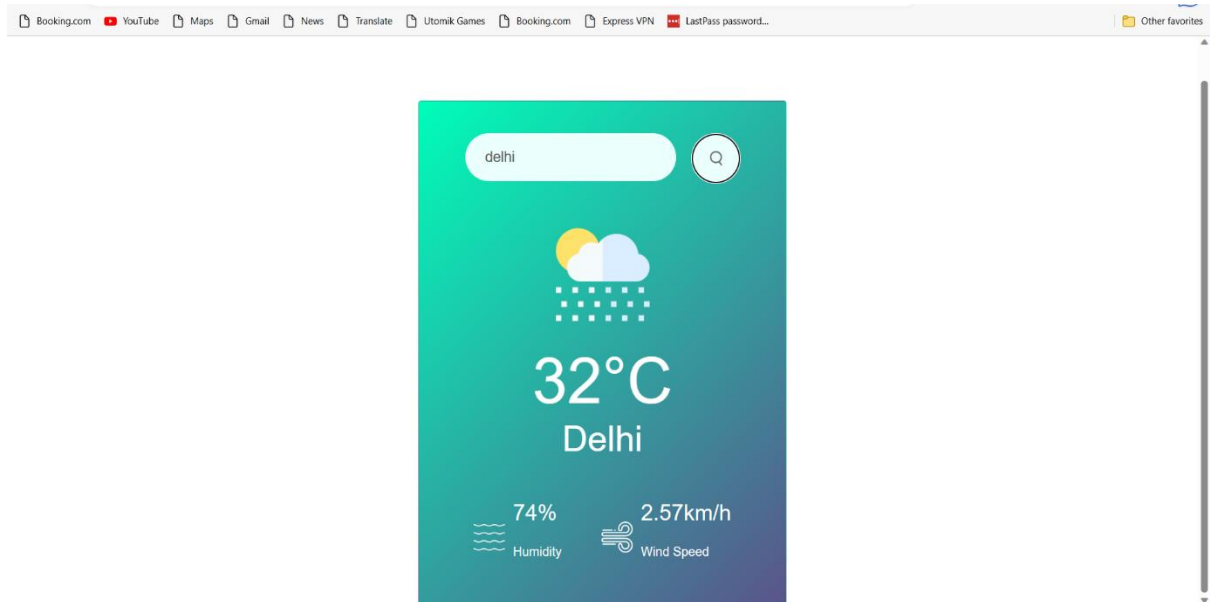
```
    font-size: 14px;
    margin-top: 10px;
    display: none;
}
```

Output screenshot:
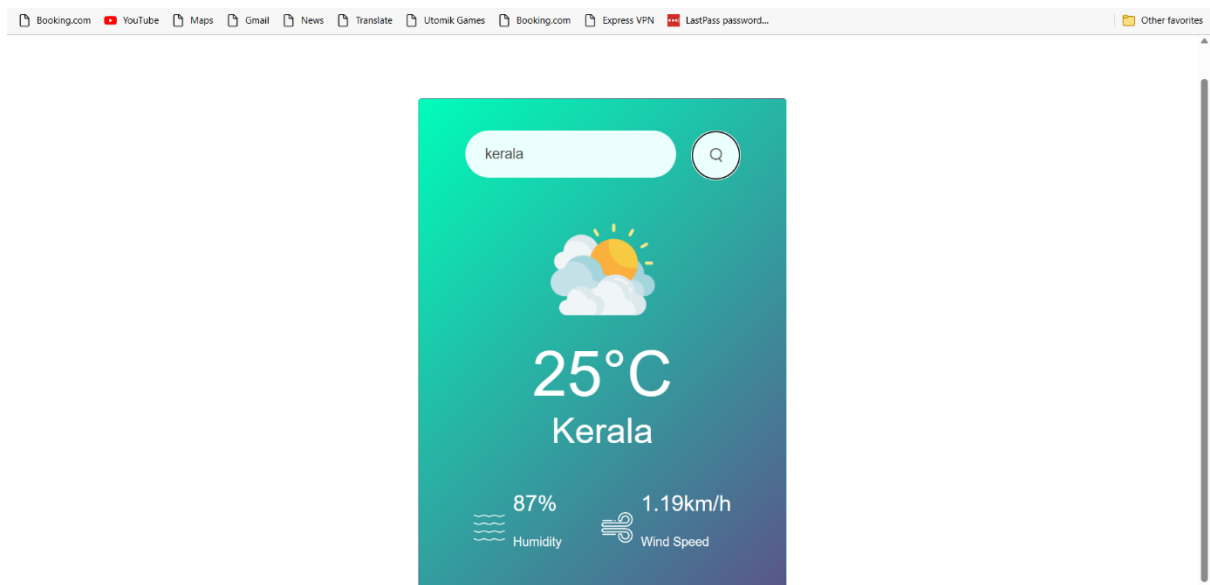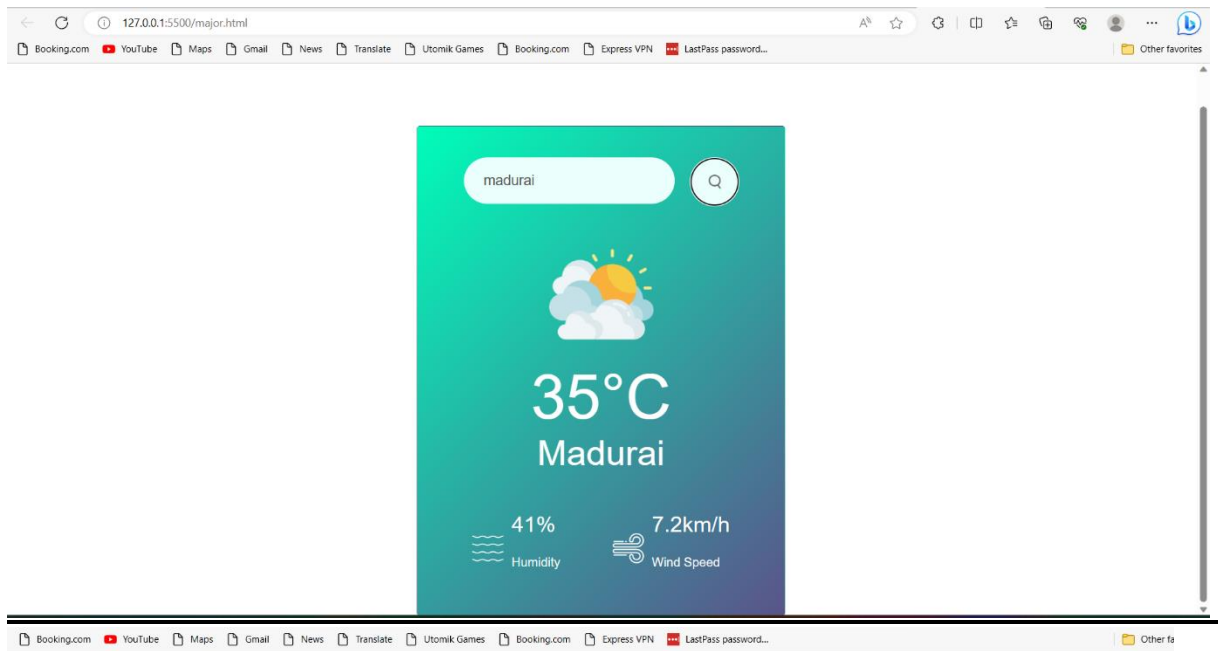
CODE2:

Html:

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <link rel="stylesheet" href="major.css">

    <title>Document</title>
</head>
<body onload="DefaultScreen()">

    <center>
```

```html
        <h1 id="Para1">7 Days Weather Forecast</h1>
        <p id="inputContainer">City: <input type="text" id="cityInput"></p>
        <button type="button" onclick="GetInfo()">Click Me</button>
        <h2 id="cityName">---London---</h2>
    </center>

    <div id = "weatherContainer">
        <div id="iconsContainer">
            <div class = "icons">
                <p class="weather" id="day1"></p>
                <div class="image"><img src="dots.png" class="imgClass"
id="img1"></div>
                <p class="minValues" id="day1Min">Loading...</p>
                <p class="maxValues" id="day1Max">Loading...</p>
            </div>
            <div class = "icons">
                <p class="weather" id="day2"></p>
                <div class="image"><img src="dots.png" class="imgClass"
id="img2"></div>
                <p class="minValues" id="day2Min">Loading...</p>
                <p class="maxValues" id="day2Max">Loading...</p>
            </div>
            <div class = "icons">
                <p class="weather" id="day3"></p>
                <div class="image"><img src="dots.png" class="imgClass"
id="img3"></div>
                <p class="minValues" id="day3Min">Loading...</p>
                <p class="maxValues" id="day3Max">Loading...</p>
            </div>
            <div class = "icons">
                <p class="weather" id="day4"></p>
                <div class="image"><img src="dots.png" class="imgClass"
id="img4"></div>
                <p class="minValues" id="day4Min">Loading...</p>
                <p class="maxValues" id="day4Max">Loading...</p>
            </div>
            <div class = "icons">
                <p class="weather" id="day5"></p>
                <div class="image"><img src="dots.png" class="imgClass"
id="img5"></div>
                <p class="minValues" id="day5Min">Loading...</p>
                <p class="maxValues" id="day5Max">Loading...</p>
            </div>
            <div class = "icons">
                <p class="weather" id="day6"></p>
                <div class="image"><img src="dots.png" class="imgClass"
id="img6"></div>
                <p class="minValues" id="day6Min">Loading...</p>
```

```html
                    <p class="maxValues" id="day6Max">Loading...</p>
                </div>
                <div class = "icons">
                    <p class="weather" id="day7"></p>
                    <div class="image"><img src="dots.png" class="imgClass"
id="img7"></div>
                    <p class="minValues" id="day7Min">Loading...</p>
                    <p class="maxValues" id="day7Max">Loading...</p>
                </div>
            </div>
        </div>


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


</body>
</html>
```

CSS:

```css
*{
    color: rgb(85, 21, 233);
    background: rgb(79, 218, 243);
    /*background-image: url(weather.jpeg);*/
    font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
}

#cityInput, #cityName, #inputContainer,button{
    margin: 3px;
padding:5px;
text-align:center;
font-size:20px;
font-weight:bold;
border-style:dashed;
border-color:rgb(20, 18, 29);
}

#weatherContainer{
    position: absolute;
    top: 70%;
    left: 50%;
    margin-right: -50%;
    transform: translate(-50%, -50%);
    height: 400px;
    width: 1500px;
    border: 5px solid rgba(199, 53, 167, 0.829);
    border-radius: 10px;
}
```

```css
#iconsContainer{
    position: absolute;
    top: 50%;
    left: 50%;
    margin-right: -50%;
    transform: translate(-50%, -50%);
    height: 300px;
    width: 1500px;
    border: 5px solid rgb(123, 18, 204);
    border-radius: 10px;
}

.icons{
    display: inline-bock;
    float: left;
    height: 200px;
    width: 160px;
    margin: 20px;
    border: 5px solid rgb(48, 47, 47);
    border-radius: 10px;
}

.image{
    height: 140px;
    width: 100%;
}

.imgClass{
    height: 140px;
    width: 100%;
}

.weather{
    margin: 5px;
    /*  background-color: rgb(106, 215, 255); */
    border-radius: 5px;
    text-align: center;
    font-weight: bold;
}

.minValues{
    text-align: center;
    display: inline-block;
    border-radius: 5px;
    height: 25px;
    width: 85px;
    margin: 0;
```

```css
        margin-bottom: 5px;
        margin-left: 5px;
}


.maxValues{
        text-align: center;
        display: inline-block;
        border-radius: 5px;
        height: 25px;
        width: 85px;
        margin: 0;
        margin-bottom: 5px;
        margin-left: 5px;
}
```

JAVASCRIPT:

```javascript
function GetInfo() {

    var newName = document.getElementById("cityInput");
    var cityName = document.getElementById("cityName");
    cityName.innerHTML = "--"+newName.value+"--";

fetch('https://api.openweathermap.org/data/2.5/forecast?q='+newName.value+'&ap
pid=32ba0bfed592484379e51106cef3f204')
.then(response => response.json())
.then(data => {

    //Getting the min and max values for each day
    for(i = 0; i<7; i++){
        document.getElementById("day" + (i+1) + "Min").innerHTML = "Min: " +
Number(data.list[i].main.temp_min - 273.15).toFixed(1)+ "°";
        //Number(1.3450001).toFixed(2); // 1.35
    }

    for(i = 0; i<7; i++){
        document.getElementById("day" + (i+1) + "Max").innerHTML = "Max: " +
Number(data.list[i].main.temp_max - 273.15).toFixed(2) + "°";
    }
    //----------------------------------------------------------

    //Getting Weather Icons
     for(i = 0; i<7; i++){
        document.getElementById("img" + (i+1)).src =
"http://openweathermap.org/img/wn/"+
```

```javascript
            data.list[i].weather[0].icon
            +".png";
        }
    //----------------------------------------------------------
    console.log(data)


})

.catch(err => alert("Something Went Wrong: Try Checking Your Internet
Coneciton"))
}

function DefaultScreen(){
    document.getElementById("cityInput").defaultValue = "London";
    GetInfo();
}


//Getting and displaying the text for the upcoming five days of the week
var d = new Date();
var weekday = ["Sunday", "Monday", "Tuesday", "Wednesday", "Thursday",
"Friday", "Saturday",];

//Function to get the correct integer for the index of the days array
function CheckDay(day){
    if(day + d.getDay() > 6){
        return day + d.getDay() - 7;
    }
    else{
        return day + d.getDay();
    }
}

    for(i = 0; i<7; i++){
        document.getElementById("day" + (i+1)).innerHTML =
weekday[CheckDay(i)];
    }
    //----
```

Output screenshot: