

## WEEK-4

**Explore the features of ES6 like arrow functions, callbacks, promises, async/await. Implement an application for reading the weather information from openweathermap.org and display the information in the form of a graph on the webpage.**

### index.html

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>weather</title>

  <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.0.0/css/all.min.css">

  //<link
href="https://fonts.googleapis.com/css?family=Source+Sans+Pro:200,300,400,600,700">

  //<link
href="https://fonts.googleapis.com/css?family=Open+Sans+Condensed:300">

  <link rel="stylesheet" href="styles.css">

</head>

<body>

<div class="container">

  <div class="weather-side">

    <div class="weather-gradient"></div>

    <div class="date-container">
```

```
<h2 class="date-dayname"></h2>
<span class="date-day"></span>
<i class="fa-solid fa-location-dot"></i>
<span class="location"></span>
</div>
<div class="weather-container">
  <span class="weather-icon"></span>
  <h1 class="weather-temp"></h1>
  <h3 class="weather-desc"></h3>
</div>
</div>
<div class="info-side">
  <div class="today-info-container">
    <div class="today-info">
      <div class="humidity">
        <span class="title"><i class="fa-solid fa-droplet"></i>
HUMIDITY</span>
        <span class="value"></span>
        <div class="clear"></div>
      </div>
      <div class="wind">
        <span class="title"><i class="fa-solid fa-wind"></i>
WIND</span>
        <span class="value"></span>
        <div class="clear"></div>
      </div>
    </div>
  </div>
</div>
```

```
<div class="week-container">
  <ul class="week-list">
    <li>
      <span class="day-name"></span>
      <span class="day-temp"></span>
      <span class="day-icon"></span>
    </li>
    <li>
      <span class="day-name"></span>
      <span class="day-temp"></span>
      <span class="day-icon"></span>
    </li>
    <li>
      <span class="day-name"></span>
      <span class="day-temp"></span>
      <span class="day-icon"></span>
    </li>
    <li>
      <span class="day-name"></span>
      <span class="day-temp"></span>
      <span class="day-icon"></span>
    </li>
    <div class="clear"></div>
  </ul>
</div>
<div class="location-container">
```

```
        <input class="location-input" type="text" id="city" value="Kabul,
Afghanistan">
```

```
    </div>
```

```
</div>
```

```
</div>
```

```
    <script src="https://code.jquery.com/jquery-3.3.1.slim.min.js"></script>
```

```
    <script
src="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js"></s
cript>
```

```
    <script src="https://cdn.jsdelivr.net/npm/axios/dist/axios.min.js"></script>
```

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

```
</body>
```

```
</html>
```

### **script.js**

```
document.getElementById('city').addEventListener('input', function () {
    var city = this.value;
    getWeather(city);
});
```

```
async function getWeather() {
    try {
        var city = document.getElementById('city').value;
        console.log('city name:', city);
```

```

const response = await
axios.get('https://api.openweathermap.org/data/2.5/forecast', {
  params: {
    q: city,
    appid: '54a57bc234ad752a4f59e59cd372201d',
    units: 'metric'
  },
});
const currentTemperature = response.data.list[0].main.temp;

document.querySelector('.weather-temp').textContent =
Math.round(currentTemperature) + '°C';

const forecastData = response.data.list;

const dailyForecast = {};
forecastData.forEach((data) => {
  const day = new Date(data.dt * 1000).toLocaleDateString('en-US', {
    weekday: 'long' });
  if (!dailyForecast[day]) {
    dailyForecast[day] = {
      minTemp: data.main.temp_min,
      maxTemp: data.main.temp_max,
      description: data.weather[0].description,
      humidity: data.main.humidity,
      windSpeed: data.wind.speed,
      icon: data.weather[0].icon,
    }
  }
});

```

```
        };  
    } else {  
        dailyForecast[day].minTemp =  
Math.min(dailyForecast[day].minTemp, data.main.temp_min);  
        dailyForecast[day].maxTemp =  
Math.max(dailyForecast[day].maxTemp, data.main.temp_max);  
    }  
});
```

```
document.querySelector('.date-dayname').textContent = new  
Date().toLocaleDateString('en-US', { weekday: 'long' });
```

```
const date = new Date().toUTCString();  
const extractedDateTime = date.slice(5, 16);  
document.querySelector('.date-day').textContent =  
extractedDateTime.toLocaleString('en-US');
```

```
const currentWeatherIconCode = dailyForecast[new  
Date().toLocaleDateString('en-US', { weekday: 'long' })].icon;  
const weatherIconElement = document.querySelector('.weather-icon');  
weatherIconElement.innerHTML =  
getWeatherIcon(currentWeatherIconCode);
```

```
document.querySelector('.location').textContent = response.data.city.name;  
document.querySelector('.weather-desc').textContent = dailyForecast[new  
Date().toLocaleDateString('en-US', { weekday: 'long' })].description.split(''  
'').map(word => word.charAt(0).toUpperCase() + word.slice(1)).join(' ');
```

```
document.querySelector('.humidity .value').textContent =
dailyForecast[new Date().toLocaleDateString('en-US', { weekday: 'long'
})].humidity + ' %';
```

```
document.querySelector('.wind .value').textContent = dailyForecast[new
Date().toLocaleDateString('en-US', { weekday: 'long' })].windSpeed + ' m/s';
```

```
const dayElements = document.querySelectorAll('.day-name');
```

```
const tempElements = document.querySelectorAll('.day-temp');
```

```
const iconElements = document.querySelectorAll('.day-icon');
```

```
dayElements.forEach((dayElement, index) => {
  const day = Object.keys(dailyForecast)[index];
  const data = dailyForecast[day];
  dayElement.textContent = day;
  tempElements[index].textContent = `${Math.round(data.minTemp)}° /
${Math.round(data.maxTemp)}°`;
  iconElements[index].innerHTML = getWeatherIcon(data.icon);
});
```

```
} catch (error) {
  console.error('Error fetching weather data:', error.message);
}
}
```

```
function getWeatherIcon(iconCode) {
  const iconBaseUrl = 'https://openweathermap.org/img/wn/';
  const iconSize = '@2x.png';
```

```
    return ``;
}
```

```
document.addEventListener("DOMContentLoaded", function () {
    getWeather();
    setInterval(getWeather, 900000);
});
```

### **styles.css**

```
@import
url('https://fonts.googleapis.com/css?family=Montserrat:400,700,900&display=
swap');
```

```
:root {
    --gradient: linear-gradient(135deg, #72EDF2 10%, #5151E5 100%);
}
```

```
* {
    box-sizing: border-box;
    line-height: 1.25em;
}
```

```
.clear {
    clear: both;
}
```



```
body {  
    margin: 0;  
    width: 100%;  
    height: 100vh;  
    font-family: 'Montserrat', sans-serif;  
  
    display: flex;  
    align-items: center;  
    justify-content: center;  
}
```

```
.container {  
    border-radius: 25px;  
    box-shadow: 0 0 70px -10px rgba(0, 0, 0, 0.2);  
    background-color: #222831;  
    color: #ffffff;  
    height: 400px;  
}
```

```
.weather-side {  
    position: relative;  
    height: 100%;  
    border-radius: 25px;  
    background-image: url("https://img.freepik.com/free-photo/sunset-beach-sea-wave_1150-11145.jpg");  
    width: 300px;  
    box-shadow: 0 0 20px -10px rgba(0, 0, 0, 0.2);  
    transition: transform 300ms ease;
```

```
    transform: translateZ(0) scale(1.02) perspective(1000px);  
    float: left;  
}
```

```
.weather-side:hover {  
    transform: scale(1.1) perspective(1500px) rotateY(10deg);  
}
```

```
.weather-gradient {  
    position: absolute;  
    width: 100%;  
    height: 100%;  
    top: 0;  
    left: 0;  
    background-image: var(--gradient);  
    border-radius: 25px;  
    opacity: 0.4;  
}
```

```
.date-container {  
    position: absolute;  
    top: 25px;  
    left: 25px;  
}
```

```
.date-dayname {  
    margin: 0;
```

```
}
```

```
.date-day {  
    display: block;  
}
```

```
.location {  
    display: inline-block;  
    margin-top: 10px;  
}
```

```
.location-icon {  
    display: inline-block;  
    height: 0.8em;  
    width: auto;  
    margin-right: 5px;  
}
```

```
.weather-container {  
    position: absolute;  
    bottom: 25px;  
    left: 25px;  
}
```

```
.weather-icon img {  
    filter: drop-shadow(0 0 2px #fff);  
    width: 100%;
```

```
}
```

```
.weather-temp {  
  margin: 0;  
  font-weight: 700;  
  font-size: 4em;  
}
```

```
.weather-desc {  
  margin: 0;  
}
```

```
.info-side {  
  position: relative;  
  float: left;  
  height: 100%;  
  padding-top: 25px;  
}
```

```
.today-info {  
  padding: 15px;  
  margin: 0 25px 25px 25px;  
  box-shadow: 0 0 50px -5px rgba(0, 0, 0);  
  border-radius: 10px;  
}
```

```
.today-info>div:not(:last-child) {
```

```
    margin: 0 0 10px 0;
}
```

```
.today-info>div .title {
    float: left;
    font-weight: 700;
}
```

```
.today-info>div .value {
    float: right;
}
```

```
.week-list {
    list-style-type: none;
    padding: 0;
    margin: 10px 35px;
    box-shadow: 0 0 50px -5px rgba(0, 0, 0, 0.25);
    border-radius: 10px;
}
```

```
.week-list>li {
    float: left;
    padding: 15px;
    cursor: pointer;
    transition: 200ms ease;
    border-radius: 10px;
}
```

```
.week-list>li:hover {  
    transform: scale(1.1);  
    background: #fff;  
    color: #222831;  
    box-shadow: 0 0 40px -5px rgba(0, 0, 0, 0.2)  
}
```

```
.week-list>li.active {  
    background: #fff;  
    color: #222831;  
    border-radius: 10px;  
}
```

```
.week-list>li .day-name {  
    display: block;  
    margin: 10px 0 0 0;  
    text-align: center;  
}
```

```
.week-list>li .day-icon {  
    display: flex;  
    margin-top: 20px;  
    justify-content: center;  
    align-items: center;  
    height: 30px;  
    width: auto;
```

```
margin: 0 auto;
font-size: 35px;
}
```

```
.week-list>li .day-icon img {
  filter: drop-shadow(0 0 2px white);
}
```

```
.week-list>li .day-temp {
  display: block;
  text-align: center;
  margin-top: 15px;
  font-weight: 700;
  margin-bottom: 25px;
}
```

```
.location-container {
  padding: 25px 35px;
}
```

```
.location-input {
  position: relative;
  width: 100%;
  border: none;
  border-radius: 25px;
  padding: 10px;
  font-family: 'Montserrat', sans-serif;
```

```
background-image: var(--gradient);  
color: #000000;  
font-weight: 700;  
box-shadow: 0 0 30px -5px rgba(0, 0, 0, 0.25);  
transition: transform 200ms ease;  
}
```

```
.location-input:hover {  
    transform: scale(0.95);  
}
```