JS

function formatDate(*timestamp*) {

  let date = **new** *Date*(*timestamp*);

  let dateNumber = date.getDate();

  let hours = date.getHours();

  if (hours < 10) {

    hours = `0${hours}`;

  }

  let minutes = date.getMinutes();

  if (minutes < 10) {

    minutes = `0${minutes}`;

  }

  let days = [

    "Sunday",

    "Monday",

    "Tuesday",

    "Wendsday",

    "Thursday",

    "Friday",

    "Saturday",

  ];

  let day = days[date.getDay()];

  let months = [

    "Jan",

    "Feb",

    "March",

    "Apr",

    "May",

    "Jun",

    "Jul",

    "Aug",

    "Sep",

    "Oct",

    "Now",

    "Dec",

  ];

  let month = months[date.getMonth()];

  return `${day} ${dateNumber} ${month}, ${hours}:${minutes}`;

}

function formatDay(*timestamp*) {

  let date = **new** *Date*(*timestamp* \* 1000);

  let day = date.getDay();

  let days = ["Sun", "Mon", "Tue", "Wed", "Thu", "Fri", "Sat"];

  return days[day];

}

function showForecast(*response*) {

  console.log(*response*.data.daily);

  let forecast = *response*.data.daily;

  let forecastElement = document.querySelector("#forecast");

  let forecastHTML = `<div class="row">`;

  forecast.forEach(function (*forecastDay*, *index*) {

    if (*index* < 6) {

      forecastHTML =

        forecastHTML +

        `

      <div class="col-2">

        <div class="weather-forecast-date">${formatDay(*forecastDay*.dt)}</div>

        <img

          src="http://openweathermap.org/img/wn/${

*forecastDay*.weather[0].icon

          }@2x.png"

          alt=""

          width="42"

        />

        <div class="weather-forecast-temperatures">

          <span class="weather-forecast-max">${Math.round(

*forecastDay*.temp.max

          )}° </span>

          <span class="weather-forecast-min">${Math.round(

*forecastDay*.temp.min

          )}° </span>

    </div>

  </div>`;

    }

  });

  forecastHTML = forecastHTML + `</div>`;

  forecastElement.innerHTML = forecastHTML;

}

function getForecast(*coordinates*) {

  console.log(*coordinates*);

  let apiKey = "40b745c14eadad7b7c4e6e4bf3b70103";

  let apiUrl = `https://api.openweathermap.org/data/2.5/onecall?lat=${*coordinates*.lat}&lon=${*coordinates*.lon}&appid=${apiKey}&units=metric`;

  console.log(apiUrl);

  axios.get(apiUrl).then(showForecast);

}

function showTemperature(*response*) {

  let temperatureElement = document.querySelector("#temperature");

  celsiusTemperature = *response*.data.main.temp;

  temperatureElement.innerHTML = Math.round(celsiusTemperature);

  let cityElement = document.querySelector("#city");

  cityElement.innerHTML = *response*.data.name;

  let descriptionElement = document.querySelector("#description");

  descriptionElement.innerHTML = *response*.data.weather[0].description;

  let humidityElement = document.querySelector("#humidity");

  humidityElement.innerHTML = *response*.data.main.humidity;

  let windElement = document.querySelector("#wind");

  windElement.innerHTML = Math.round(*response*.data.wind.speed);

  let dateElement = document.querySelector("#date");

  dateElement.innerHTML = formatDate(*response*.data.dt \* 1000);

  let iconElement = document.querySelector("#icon");

  iconElement.setAttribute(

    "src",

    `http://openweathermap.org/img/wn/${*response*.data.weather[0].icon}@2x.png`

  );

  iconElement.setAttribute("alt", *response*.data.weather[0].description);

  getForecast(*response*.data.coord);

}

function search(*city*) {

  let apiKey = "b7a3558dd4231bb7517fc8c9d13c79d4";

  let apiUrl = `https://api.openweathermap.org/data/2.5/weather?q=${*city*}&appid=${apiKey}&units=metric`;

  axios.get(apiUrl).then(showTemperature);

}

function handleSubmit(*event*) {

*event*.preventDefault();

  let citySearchElement = document.querySelector("#city-search");

  search(citySearchElement.value);

}

function showFahrenheitTemp(*event*) {

*event*.preventDefault();

  let temperatureElement = document.querySelector("#temperature");

  celsiusLink.classList.remove("active");

  fahrenheitLink.classList.add("active");

  let fahrenheitTemp = (celsiusTemperature \* 9) / 5 + 32;

  temperatureElement.innerHTML = Math.round(fahrenheitTemp);

}

function showCelsiusTemp(*event*) {

*event*.preventDefault();

  celsiusLink.classList.add("active");

  fahrenheitLink.classList.remove("active");

  let temperatureElement = document.querySelector("#temperature");

  temperatureElement.innerHTML = Math.round(celsiusTemperature);

}

let celsiusTemperature = null;

let form = document.querySelector("#search-form");

form.addEventListener("submit", handleSubmit);

let fahrenheitLink = document.querySelector("#fahrenheit-link");

fahrenheitLink.addEventListener("click", showFahrenheitTemp);

let celsiusLink = document.querySelector("#celsius-link");

celsiusLink.addEventListener("click", showCelsiusTemp);

search("Dakar");

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

*href*="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/css/bootstrap.min.css"

*rel*="stylesheet"

*integrity*="sha384-Zenh87qX5JnK2Jl0vWa8Ck2rdkQ2Bzep5IDxbcnCeuOxjzrPF/et3URy9Bv1WTRi"

*crossorigin*="anonymous"

    />

    <script *src*="https://unpkg.com/axios@1.1.2/dist/axios.min.js"></script>

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

    <title>Weather project</title>

  </head>

  <body>

    <div *class*="container">

      <div *class*="weather-app">

        <form *id*="search-form" *class*="mb-3">

          <div *class*="row">

            <div *class*="col-9">

              <input

*type*="search"

*placeholder*="Type a city..."

*class*="form-control"

*id*="city-search"

*autocomplete*="off"

              />

            </div>

            <div *class*="col-3">

              <input *type*="submit" *value*="search" *class*="btn btn-primary" />

            </div>

          </div>

        </form>

        <h1 *id*="city"></h1>

        <ul *class*="date">

          <li *id*="date"></li>

          <li *id*="description"></li>

        </ul>

        <div *class*="row">

          <div *class*="col-6">

            <div *class*="d-flex weather-temperature">

              <img

*src*="https://ssl.gstatic.com/onebox/weather/64/cloudy.png"

*alt*="Cloudy"

*id*="icon"

              />

              <div>

                <strong *id*="temperature"></strong

                ><span *class*="units">

                  <a *href*="#" *id*="celsius-link" *class*="active">℃</a> |

                  <a *href*="#" *id*="fahrenheit-link" *class*="link">℉</a>

                </span>

              </div>

            </div>

          </div>

          <div *class*="col-6">

            <ul>

              <li>Precipitation: 70%</li>

              <li>Humidity: <span *id*="humidity"></span>%</li>

              <li>Wind: <span *id*="wind"></span> m/s </li>

            </ul>

          </div>

        </div>

        <div *class*="weather-forecast" *id*="forecast"></div>

      </div>

      <div *style*="text-align: center">

        <small>

          <a

*href*="https://github.com/AlonaCh/Vanilla-project.git"

*target*="\_blank"

            >Open-source code</a

          >

          by Alona Chubenko

        </small>

      </div>

    </div>

    <script *src*="app.js"></script>

  </body>

</html>

Css

body {

  font-family: Arial, Helvetica, sans-serif;

}

h1 {

  font-size: 30px;

  font-weight: 100;

  line-height: 24px;

  color: #252525;

  margin-bottom: 0;

}

ul {

  margin: 0;

  padding: 0;

}

li {

  font-size: 16px;

  list-style: none;

  color: #252525;

  margin: 0;

  padding: 0;

  text-transform: capitalize;

}

li*:first-letter* {

  text-transform: capitalize;

}

*.weather-app* {

  max-width: 600px;

  margin: 30px auto;

  padding: 20px;

  border: 1px solid #f5f0e7;

  border-radius: 7px;

  background-color: #f5f0e7;

}

*.weather-temperature* img {

  width: 64px;

  height: 64px;

  margin-right: 10px;

}

*.weather-temperature* strong {

  font-weight: 400;

  font-size: 50px;

}

*.weather-temperature* *.units* {

  position: relative;

  top: -26px;

}

*.weather-temperature* *.link* {

 text-decoration: none;

}

*.weather-temperature* *.active* {

  color:#252525;

  cursor: default;

  text-decoration: none;

}

*.weather-temperature* *.active:hover* {

  text-decoration: none;

}

*.weather-forecast* {

  margin: 20px;

  text-align: center;

}

*.weather-forecast-date* {

  font-size: 15px;

  color: #252525;

  opacity: 0.6;

}

*.weather-forecast-temperatures* {

  font-size: 13px;

}