```
<!DOCTYPE html>
<html>
  <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="style.css">
     <title>Forcast Weather App</title>
  </head>
  <body>
    <div class="wrapper">
      <div class="sidebar">
       <div>
        <form class="search" id="search">
         <input type="text" id="query" placeholder="Search..." />
         <button><i class="fas fa-search"></i></button>
        </form>
        <div class="weather-icon">
         <img id="icon" src="icons/sun/4.png" alt="" />
        </div>
        <div class="temperature">
         <h1 id="temp">0</h1>
         <span class="temp-unit">°C</span>
        </div>
        <div class="date-time">
         Monday, 12:00
        </div>
        <div class="divider"></div>
        <div class="condition-rain">
         <div class="condition">
```

```
<i class="fas fa-cloud"></i>
   condition
  </div>
  <div class="rain">
   <i class="fas fa-tint"></i>
   perc - 0%
  </div>
 </div>
</div>
<div class="location">
 <div class="location-icon">
  <i class="fas fa-map-marker-alt"></i>
 </div>
 <div class="location-text">
  location
 </div>
</div>
</div>
<div class="main">
<nav>
 <button class="hourly">today</button>
  <button class="week active">week</button>
 <button class="celcius active">°C</button>
  <button class="fahrenheit">°F</button>
 </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">
  0
  Low
 </div>
</div>
<div class="card2">
 <h4 class="card-heading">Wind Status</h4>
 <div class="content">
  0
  km/h
 </div>
</div>
<div class="card2">
 <h4 class="card-heading">Sunrise & Sunset</h4>
 <div class="content">
  0
  0
 </div>
</div>
<div class="card2">
 <h4 class="card-heading">Humidity</h4>
 <div class="content">
  0
  Normal
 </div>
</div>
<div class="card2">
```

```
<h4 class="card-heading">Visibility</h4>
       <div class="content">
        0
        Normal
       </div>
       </div>
       <div class="card2">
       <h4 class="card-heading">Air Quality</h4>
       <div class="content">
        0
        Normal
       </div>
       </div>
      </div>
     </div>
     Crafted with  by <a href="https://youtu.be/A2ianP1cG98">Open
Source Coding</a>
    </div>
   </div>
   <script src="script.js"></script>
 </body>
</html>
```

```
@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: 40px;
 border: 1px solid #ced4da;
 border-top-left-radius: 5px;
 border-bottom-left-radius: 5px;
 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: 40px;
 border: none;
 border-top-right-radius: 5px;
 border-bottom-right-radius: 5px;
 background: var(--primary-color);
 color: #fff;
 font-size: 14px;
 cursor: pointer;
}
.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: #c2c2c2;
 position: absolute;
 bottom: 30px;
 left: 50%;
 transform: translateX(-50%);
}
```

```
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}?unitG
roup=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">
       <img src="${iconSrc}" class="day-icon" alt="" />
      </div>
      <div class="day-temp">
       <h2 class="temp">${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 = \frac{1}{9} linear-gradient( rgba(0, 0, 0, 0.5), rgba(0, 0, 0, 0.5) ),url(\frac{5}{9});
}
//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 ? "0" + 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 69";
 } else if (airquality <= 200) {
  airQualityStatus.innerText = "Unhealthy 69";
 } else if (airquality <= 250) {
  airQualityStatus.innerText = "Very Unhealthy 22";
 } 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 = [
{
  country: "PK",
  name: "Abbottabad",
 lat: "34.1463",
 Ing: "73.21168",
},
{
  country: "PK",
  name: "Adilpur",
  lat: "27.93677",
 Ing: "69.31941",
},
{
  country: "PK",
  name: "Ahmadpur East",
  lat: "29.14269",
 Ing: "71.25771",
},
{
  country: "PK",
  name: "Ahmadpur Sial",
  lat: "30.67791",
 Ing: "71.74344",
},
  country: "PK",
  name: "Akora",
  lat: "34.00337",
```

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