***Task1:-***

**Weather App:** Develop a weather application that fetches weather data based on user input (city name) using a weather API. Display the weather conditions, temperature, and other relevant information.

***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://fonts.googleapis.com/css2?family=Poppins:wght@300;400;500;600;700;800;900&family=Roboto:wght@300;400;500;700;900&display=swap"

        rel="stylesheet">

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

    <title>Weather-App</title>

</head>

<body>

    <div class="container">

        <div class="search-box">

            <i class="fa-solid fa-location-dot"></i>

            <input type="text" placeholder="Enter your location">

            <button class="fa-solid fa-magnifying-glass"></button>

        </div>

        <div class="not-found">

            <img src="images/caution.png">

            <p>Oops! Invalid location :/</p>

        </div>

        <div class="weather-box">

            <img src="">

            <p class="temperature"></p>

            <p class="description"></p>

        </div>

        <div class="weather-details">

            <div class="humidity">

                <i class="fa-solid fa-water"></i>

                <div class="text">

                    <span></span>

                    <p>Humidity</p>

                </div>

            </div>

            <div class="wind">

                <i class="fa-solid fa-wind"></i>

                <div class="text">

                    <span></span>

                    <p>Wind Speed</p>

                </div>

            </div>

        </div>

    </div>

    <script src="https://kit.fontawesome.com/7c8801c017.js" crossorigin="anonymous"></script>

    <script src="index.js"></script>

</body>

</html>

***Css:-***

\*{

    margin: 0;

    padding: 0;

    border: 0;

    outline: none;

    box-sizing: border-box;

}

body{

    height: 100vh;

    display: flex;

    align-items: center;

    justify-content: center;

    background: #b094b9;

}

.container{

    position: relative;

    width: 400px;

    height: 105px;

    background: #d4d4d4;

    padding: 28px 32px;

    overflow: hidden;

    border-radius: 18px;

    font-family: 'Roboto', sans-serif;

    transition: 0.6s ease-out;

}

.search-box{

    width: 100%;

    height: min-content;

    display: flex;

    align-items: center;

    justify-content: space-between;

}

.search-box input{

    color: #a4a4b6;

     background: #d4d4d4;

    width: 80%;

    font-size: 24px;

    font-weight: 500;

    text-transform: uppercase;

    padding-left: 32px;

}

.search-box input::placeholder{

    font-size: 20px;

    font-weight: 500;

    color: #6c688d;

    text-transform: capitalize;

}

.search-box button{

    cursor: pointer;

    width: 50px;

    height: 50px;

    color: #676483;

    background: #babbc4;

    border-radius: 50%;

    font-size: 22px;

    transition: 0.4s ease;

}

.search-box button:hover{

    color: #d1d1d1;

    background: #494158;

}

.search-box i{

    position: absolute;

    color: #494158;

    font-size: 28px;

}

.weather-box{

    text-align: center;

}

.weather-box img{

    width: 60%;

    margin-top: 30px;

}

.weather-box .temperature{

    position: relative;

    color: #706d8b;

    font-size: 4rem;

    font-weight: 800;

    margin-top: 30px;

    margin-left: -16px;

}

.weather-box .temperature span{

    position: absolute;

    margin-left: 4px;

    font-size: 1.5rem;

}

.weather-box .description{

    color: #706d8b;

    font-size: 22px;

    font-weight: 500;

    text-transform: capitalize;

}

.weather-details{

    width: 100%;

    display: flex;

    justify-content: space-between;

    margin-top: 30px;

}

.weather-details .humidity, .weather-details .wind{

    display: flex;

    align-items: center;

    width: 50%;

    height: 100px;

}

.weather-details .humidity{

    padding-left: 20px;

    justify-content: flex-start;

}

.weather-details .wind{

    padding-right: 20px;

    justify-content: flex-end;

}

.weather-details i{

    color: #706d8b;

    font-size: 26px;

    margin-right: 10px;

    margin-top: 6px;

}

.weather-details span{

    color: #706d8b;

    font-size: 22px;

    font-weight: 500;

}

.weather-details p{

    color: #706d8b;

    font-size: 14px;

    font-weight: 500;

}

.not-found{

    width: 100%;

    text-align: center;

    margin-top: 50px;

    scale: 0;

    opacity: 0;

    display: none;

}

.not-found img{

    width: 70%;

}

.not-found p{

    color: #706d8b;

    font-size: 22px;

    font-weight: 500;

    margin-top: 12px;

}

.weather-box, .weather-details{

    scale: 0;

    opacity: 0;

}

.fadeIn{

    animation: 0.5s fadeIn forwards;

    animation-delay: 0.5s;

}

@keyframes fadeIn{

    to {

        scale: 1;

        opacity: 1;

    }

}

***JS:-***

**const** container = document.querySelector('.container');

**const** search = document.querySelector('.search-box button');

**const** weatherBox = document.querySelector('.weather-box');

**const** weatherDetails = document.querySelector('.weather-details');

**const** error404 = document.querySelector('.not-found');

search.addEventListener('click', () **=>** {

**const** APIKey = '5844636dae750cc856359c80990af8fc';

**const** city = document.querySelector('.search-box input').value;

    if (city === '')

        return;

    fetch(`https://api.openweathermap.org/data/2.5/weather?q=${city}&units=metric&appid=${APIKey}`)

        .then(response **=>** response.json())

        .then(json **=>** {

            if (json.cod === '404') {

                container.style.height = '415px';

                weatherBox.style.display = 'none';

                weatherDetails.style.display = 'none';

                error404.style.display = 'block';

                error404.classList.add('fadeIn');

                return;

            }

            error404.style.display = 'none';

            error404.classList.remove('fadeIn');

**const** image = document.querySelector('.weather-box img');

**const** temperature = document.querySelector('.weather-box .temperature');

**const** description = document.querySelector('.weather-box .description');

**const** humidity = document.querySelector('.weather-details .humidity span');

**const** wind = document.querySelector('.weather-details .wind span');

            switch (json.weather[0].main) {

                case 'Clear':

                    image.src = 'images/clear.png';

                    break;

                case 'Rain':

                    image.src = 'images/rain.png';

                    break;

                case 'Snow':

                    image.src = 'images/snow.png';

                    break;

                case 'Clouds':

                    image.src = 'images/cloud.png';

                    break;

                case 'Haze':

                    image.src = 'images/mist.png';

                    break;

                default:

                    image.src = '';

            }

            temperature.innerHTML = `${parseInt(json.main.temp)}<span>°C</span>`;

            description.innerHTML = `${json.weather[0].description}`;

            humidity.innerHTML = `${json.main.humidity}%`;

            wind.innerHTML = `${parseInt(json.wind.speed)}Km/h`;

            weatherBox.style.display = '';

            weatherDetails.style.display = '';

            weatherBox.classList.add('fadeIn');

            weatherDetails.classList.add('fadeIn');

            container.style.height = '590px';

        });

});

***Output:-***





