<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>Greenhouse Control Room</title>

<style>

body {

font-family: Arial, sans-serif;

background-color: #e0f7fa;

margin: 0;

padding: 0;

display: flex;

justify-content: center;

align-items: center;

height: 100vh;

}

.container {

width: 100%;

max-width: 400px;

margin: 0 auto;

padding: 20px;

background-color: #fff;

box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);

border-radius: 20px;

}

h1 {

text-align: center;

color: #4CAF50;

}

.section {

margin-bottom: 20px;

}

.section h2 {

color: #333;

}

.section p {

color: #666;

}

.control-panel {

display: flex;

flex-direction: column;

align-items: center;

}

.control-panel div {

width: 90%;

padding: 10px;

border: 1px solid #ddd;

border-radius: 5px;

background-color: #f9f9f9;

margin-bottom: 10px;

}

.monitor {

background-color: #b3e5fc;

border: 1px solid #0288d1;

border-radius: 10px;

padding: 10px;

margin-bottom: 20px;

}

.control-panel input[type="range"] {

width: 100%;

}

.alert {

color: red;

font-weight: bold;

}

.slider {

width: 50px;

height: 24px;

position: relative;

}

.slider input {

opacity: 0;

width: 0;

height: 0;

}

.slider span {

position: absolute;

cursor: pointer;

top: 0;

left: 0;

right: 0;

bottom: 0;

background-color: #ccc;

transition: .4s;

border-radius: 34px;

}

.slider span:before {

position: absolute;

content: "";

height: 20px;

width: 20px;

left: 4px;

bottom: 2px;

background-color: white;

transition: .4s;

border-radius: 50%;

}

.slider input:checked + span {

background-color: #4CAF50;

}

.slider input:checked + span:before {

transform: translateX(26px);

}

</style>

<script>

function checkTemperature(value) {

const alert = document.getElementById('temp-alert');

document.getElementById('current-temp').innerText = value + '°C';

if (value < 10 || value > 35) {

alert.style.display = 'block';

} else {

alert.style.display = 'none';

}

}

function checkHumidity(value) {

const alert = document.getElementById('humidity-alert');

document.getElementById('current-humidity').innerText = value + '%';

if (value < 20 || value > 80) {

alert.style.display = 'block';

} else {

alert.style.display = 'none';

}

}

function checkMoisture(value) {

const alert = document.getElementById('moisture-alert');

document.getElementById('current-moisture').innerText = value + '%';

if (value < 10 || value > 100) {

alert.style.display = 'block';

} else {

alert.style.display = 'none';

}

}

function toggleControlMode() {

const isChecked = document.getElementById('control-mode').checked;

const ranges = document.querySelectorAll('.control-panel input[type="range"]');

ranges.forEach(range => {

range.disabled = !isChecked;

if (!isChecked) {

range.value = range.defaultValue;

}

});

if (!isChecked) {

document.getElementById('current-temp').innerText = '24°C';

document.getElementById('current-humidity').innerText = '60%';

document.getElementById('current-moisture').innerText = '40%';

document.getElementById('temp-alert').style.display = 'none';

document.getElementById('humidity-alert').style.display = 'none';

document.getElementById('moisture-alert').style.display = 'none';

}

}

</script>

</head>

<body>

<div class="container">

<h1>Greenhouse Control Room</h1>

<div class="section">

<h2>Welcome</h2>

<p>Welcome to the Greenhouse Control Room. Here you can monitor and adjust the conditions in your greenhouse to ensure optimal plant growth. Everything is controlled by AI.</p>

</div>

<div class="section monitor">

<h2>Current Conditions</h2>

<p>Temperature: <span id="current-temp">24°C</span></p>

<p>Humidity: <span id="current-humidity">60%</span></p>

<p>Soil Moisture: <span id="current-moisture">40%</span></p>

<p>Oxygen Level: 20.9%</p>

<p>CO2 Level: 400 ppm</p>

<p>Nitrogen Level: 78%</p>

</div>

<div class="section">

<h2>Control Mode</h2>

<label class="slider">

<input type="checkbox" id="control-mode" onchange="toggleControlMode()">

<span></span>

</label>

<span>Manual Mode</span>

</div>

<div class="section control-panel">

<div>

<h2>Temperature Control</h2>

<p>Adjust the temperature:</p>

<input type="range" min="10" max="35" value="24" oninput="checkTemperature(this.value)" disabled>

<p id="temp-alert" class="alert" style="display:none;">Warning: Temperature out of optimal range!</p>

</div>

<div>

<h2>Humidity Control</h2>

<p>Adjust the humidity:</p>

<input type="range" min="20" max="80" value="60" oninput="checkHumidity(this.value)" disabled>

<p id="humidity-alert" class="alert" style="display:none;">Warning: Humidity out of optimal range!</p>

</div>

<div>

<h2>Soil Moisture Control</h2>

<p>Adjust the soil moisture:</p>

<input type="range" min="10" max="100" value="40" oninput="checkMoisture(this.value)" disabled>

<p id="moisture-alert" class="alert" style="display:none;">Warning: Soil moisture out of optimal range!</p>

</div>

</div>

<div class="section">

<h2>Information</h2>

<p>This control room provides all the necessary tools to manage your greenhouse environment. Monitor the conditions and make adjustments as needed for optimal plant health.</p>

</div>

</div>

</body>

</html>