SMART PUBLIC RESTROOM

**HTML CODE**

<!DOCTYPE html>

<html>

<head>

<title>Smart Public Restroom</title>

<style>

body {

font-family: sans-serif;

}

.container {

width: 500px;

margin: 0 auto;

}

.sensor-data {

float: left;

width: 50%;

}

.occupancy-sensor {

font-size: 24px;

font-weight: bold;

margin-bottom: 10px;

}

.temperature-sensor {

font-size: 16px;

margin-bottom: 10px;

}

.humidity-sensor {

font-size: 16px;

margin-bottom: 10px;

}

.occupancy-status {

float: right;

width: 50%;

text-align: center;

}

.occupied {

background-color: red;

color: white;

padding: 10px;

}

.unoccupied {

background-color: green;

color: white;

padding: 10px;

}

</style>

</head>

<body>

<div class="container">

<div class="sensor-data">

<h2 class="occupancy-sensor">Occupancy Sensor</h2>

<p class="temperature-sensor">Temperature: 72 degrees Fahrenheit</p>

<p class="humidity-sensor">Humidity: 55%</p>

</div>

<div class="occupancy-status">

<h2 class="occupied">Occupied</h2>

</div>

</div>

</body>

</html>

**CSS**

body {

font-family: sans-serif;

}

.container {

width: 500px;

margin: 0 auto;

}

.sensor-data {

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width: 50%;

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color: white;

padding: 10px;

}

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background-color: green;

color: white;

padding: 10px;

}

**JAVASCRIPT**

**// Get the occupancy sensor data**

**var occupancySensor = document.querySelector('.occupancy-sensor');**

**// Get the occupancy status element**

**var occupancyStatus = document.querySelector('.occupancy-status');**

**// Create a new WebSocket connection to the occupancy sensor server**

**var socket = new WebSocket('ws://localhost:8080');**

**// When the WebSocket connection is open, start listening for occupancy sensor data**

**socket.addEventListener('open', function() {**

**socket.send('subscribe');**

**});**

**// When a new occupancy sensor data message is received, update the occupancy sensor data element**

**socket.addEventListener('message', function(event) {**

**occupancySensor.textContent = event.data;**

**// Update the occupancy status element based on the occupancy sensor data**

**if (event.data === 'Occupied') {**

**occupancyStatus.classList.remove('unoccupied');**

**occupancyStatus.classList.add('occupied');**

**} else {**

**occupancyStatus.classList.remove('occupied');**

**occupancyStatus.classList.add('unoccupied');**

**}**

**});**