Internet Of Things – Group 1

AQM

Phase 4: Development Part 2

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Phase 4: Development Part 2

Design of the platform using HTML to receive and display air quality data sent by the IoT devices.

```
<!DOCTYPE html>

<html>

<head>

<title>Air Quality Monitoring</title>

</head>

<body>

<h1>Real-time Air Quality Data</h1>


<div id=”data-display”>

<!—Data will be displayed here →

</div>


<script>

// JavaScript for receiving and displaying real-time data

Function updateAirQuality(data) {
```

```
// Update the data-display div with the received data

Document.getElementById("data-display").innerHTML = `<p>PM2.5: ${data.pm25} µg/m³</p><p>PM10: ${data.pm10} µg/m³</p><p>Temperature: ${data.temperature} °C</p><p>Humidity: ${data.humidity}%</p>`;

}


// Simulate receiving data from IoT devices (replace with actual data retrieval)

setInterval(function() {

const simulatedData = {

pm25: Math.random() * 100,

pm10: Math.random() * 100,

temperature: 25 + Math.random() * 10,

humidity: 40 + Math.random() * 20

};

updateAirQuality(simulatedData);

}, 5000); // Update every 5 seconds

</script>

</body>

</html>
```

We create a basic HTML structure with a title and a heading for the web page.

The element is where the air quality data will be displayed.

We use JavaScript to update the data in real-time. The updateAirQuality function is called with new data, and it updates the content of the data-display div.

For demonstration purposes, we simulate receiving data every 5 seconds. In a real application, you would replace this with code to receive data from your IoT devices.