

# Air Quality Monitoring using web development technologies

## INTRODUCTION:

Creating a platform that displays real-time air quality data in an IoT (Internet of Things) context involves connecting sensors to a microcontroller, collecting data, and then transmitting and displaying this data on a web platform.

Here is a HTML program for air quality data using IOT device

```
```html
<!DOCTYPE html>

<html>

<head>

  <title>Air Quality Monitoring</title>

</head>

<body>

  <h1>Air Quality Monitoring</h1>

  <p id="aq-data">Loading data...</p>

  <script>

    // JavaScript to fetch and display air quality data

    Function fetchAirQualityData() {

      // Replace 'your-api-endpoint' with the actual endpoint to fetch data from your IoT
device

      Fetch('your-api-endpoint')

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

        .then(data => {

          Const airQualityData = data.airQuality; // Adjust this according to your data structure

          Document.getElementById("aq-data").textContent = `Air Quality: ${airQualityData}`;

        })

    }
```

```
.catch(error => {  
    Console.error('Error fetching air quality data:', error);  
    Document.getElementById("aq-data").textContent = 'Failed to fetch data';  
});  
}
```

```
// Fetch data on page load
```

```
fetchAirQualityData();
```

```
// You can set up a timer or trigger this function as needed to update the data
```

```
</script>
```

```
</body>
```

```
</html>
```

## **CONCLUSION :**

This technology not only serves immediate practical purposes, like enabling people to avoid polluted areas, but also contributes to long-term efforts in understanding air quality patterns, identifying pollution sources, and formulating effective policies to combat environmental challenges. With the continuous advancement of IoT and web technologies, the potential for these platforms to provide real-time, actionable insights into our surroundings is bound to grow, fostering a healthier and more sustainable future for all.

-A.Akkila