ENVIRONMENTAL MONITORING BASED ON INTERNET OF THINGS

TEAM

MEMBER:960321104048

NIJU D

Phase 4 Document Submission

Project Title: Environmental Monitoring

INTRODUCTION:

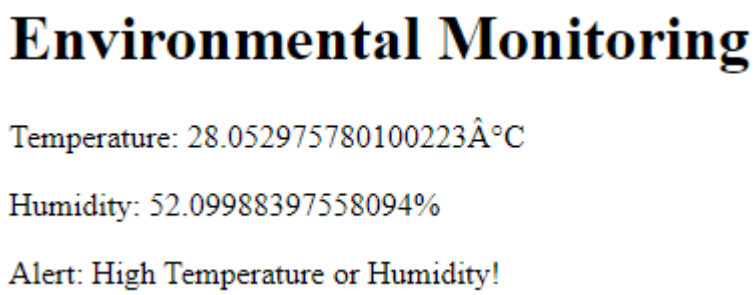
An effective environmental monitoring platform is essential in today's world, where environmental concerns have become increasingly prominent. This platform serves as a comprehensive system that collects, analyses, and disseminates data on various aspects of the environment, such as air quality, water quality, climate conditions, and biodiversity. By providing real-time and historical data, it empowers researchers, policymakers, and the public to make informed decisions and take proactive measures to protect our planet. In this digital age, the development of a cutting-edge environmental monitoring platform is not just a necessity; it's a commitment to safeguarding the Earth for future generations. This introduction sets the stage for the vital role such a platform plays in our efforts to preserve and sustain our environment.

DEVELOPING ENVIRONMENTAL MONITORING PLATFORM USING HTML:

```
<!DOCTYPE html>
<html>
<head>
    <title>Environmental Monitoring</title>
    <script>
        var temperature = 25;
        var humidity = 60;
        function updateReadings() {
            temperature = getRandomValue(20, 30);
            humidity = getRandomValue(40, 70);
            document.getElementById("temperature").innerHTML = "Temperature: " +
temperature + "°C";
```

```
            document.getElementById("humidity").innerHTML = "Humidity: " + humidity
+ "%";
            if (temperature > 28 || humidity > 70) {
                document.getElementById("alertMessage").innerHTML = "Alert: High
Temperature or Humidity!";
                var audio = new Audio('alert.mp3');
                audio.play();
            } else {
                document.getElementById("alertMessage").innerHTML = "";
            }
        }
        function getRandomValue(min, max) {
            return Math.random() * (max - min) + min;
        }
        setInterval(updateReadings, 5000);
        updateReadings();
    </script>
</head>
<body>
    <h1>Environmental Monitoring</h1>
    <p id="temperature">Temperature: -°C</p>
    <p id="humidity">Humidity: -%</p>
    <p id="alertMessage"></p>
</body>
</html>
```

SAMPLE OUTPUT



OUTPUT

https://environmental-monito.w3spaces.com/saved-from-Tryit-2023-10-26.html

CONCLUSION:

An environmental monitoring platform plays a crucial role in safeguarding our planet and ensuring the well-being of both ecosystems and human populations. Through the collection and analysis of data from various environmental parameters, such as air quality, water quality, climate, and biodiversity, these platforms empower us to make informed decisions and take proactive measures to address environmental challenges.

In the face of increasing environmental challenges, the importance of environmental monitoring platforms cannot be overstated. They are essential tools in our collective efforts to protect and preserve the natural world, ensuring a healthier, more sustainable future for all.