**Phase 4 project:**

**Project Title: SMART WATER FOUNTAIN**

**Project ID :** proj\_223731\_Team\_5

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**SMART WATER FOUNTAIN**

The platform to receive and display real-time water fountain data, including water flow rate and malfunction alerts using html , css, javascript

**HTML :**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<link rel="stylesheet" href="style.css">

<title>Water Fountain Data</title>

</head>

<body>

<marquee bgcolor="blue" behavior="alternate" direction="right">

<h1>Smart Water Fountain</h1>

</marquee>

<div id="waterFlow">

<h2>Water Flow Rate: <span id="flowRate">0 L/min</span></h2>

</div>

<div id="malfunctionAlert">

<h2>Malfunction Alert: <span id="alertStatus">No Alerts</span></h2>

</div>

<input type="submit">

<script src="script.js"></script>

</body>

</html>

**CSS :**

body {

font-family: Arial, sans-serif;

text-align: center;

}

h1 {

color: white;

padding: 20px;

}

#waterFlow, #malfunctionAlert {

margin: 20px;

padding: 10px;

border: 1px solid #ccc;

}

#waterFlow h2, #malfunctionAlert h2 {

margin: 0;

}

#flowRate, #alertStatus {

color: #007bff;

}

JAVASCRIPT :

const flowRateElement = document.getElementById("flowRate");

const alertStatusElement = document.getElementById("alertStatus");

// Simulate real-time data with a function that generates random data

function generateRandomData() {

const flowRate = (Math.random() \* 10).toFixed(2); // Simulated flow rate data

const isMalfunction = Math.random() > 0.8; // Simulated malfunction alert

return { flowRate, isMalfunction };

}

function updateData() {

const data = generateRandomData();

// Update the flow rate display

flowRateElement.textContent = `${data.flowRate} L/min`;

// Update the malfunction alert status

alertStatusElement.textContent = data.isMalfunction ? "Alert Detected" : "No Alerts";

if (data.isMalfunction) {

alertStatusElement.style.color = "red";

} else {

alertStatusElement.style.color = "#007bff";

}

}

// Update the data every 2 seconds (simulated real-time)

setInterval(updateData, 2000);

// You would typically use websockets to receive real-time data from a server.

Here basic HTML structure with placeholders for displaying the water flow rate and malfunction alerts. The JavaScript code simulates real-time data updates by generating random data and updating the HTML elements accordingly. In a real-world scenario, you would replace the simulated data generation with actual data received via websockets from a server that collects data from smart water fountains.