

Phase 4 project:

Project Title: SMART WATER FOUNTAIN

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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.

