

Project Title : **Smart Water Fountains**

Phase - 4 : Development Part - 2

In this part you will continue building your project.

Continue building the project by developing the water fountain status platform. Use web development technologies (e.g., HTML, CSS, JavaScript) to create a platform that displays real-time water fountain status.

Design the platform to receive and display real-time water fountain data, including water flow rate and malfunction alerts.

Coding Part :

HTML :

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

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

  <title>Water Fountain Status Platform</title>

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

</head>

<body>

  <h1>Water Fountain Status</h1>

  <table>

    <thead>

      <tr>

        <th>Fountain ID</th>

        <th>Flow Rate (L/min)</th>

        <th>Status</th>

      </tr>

    </thead>
```

```
<tbody id="fountainData">
  <!-- Rows will be appended here using JavaScript -->
</tbody>
</table>
```

```
<script src="script.js"></script>
</body>
</html>
```

CSS :

```
body {
  font-family: Arial, sans-serif;
  padding: 20px;
  max-width: 600px;
  margin: 40px auto;
}
table {
  width: 100%;
  border-collapse: collapse;
}
th, td {
  padding: 8px 12px;
  border: 1px solid #ccc;
  text-align: left;
}
th {
  background-color: #f2f2f2;
}
```

```
tr:nth-child(even) {  
    background-color: #f9f9f9;  
}  
tr:hover {  
    background-color: #e6e6e6;  
}
```

Javascript :

```
// Mock fountain data  
const fountains = [  
    { id: 1, flowRate: 2.5, malfunction: false },  
    { id: 2, flowRate: 1.2, malfunction: true },  
    { id: 3, flowRate: 3.1, malfunction: false },  
    // ... Add more as needed  
];  
  
document.addEventListener('DOMContentLoaded', function() {  
    const tableBody = document.getElementById('fountainData');  
  
    fountains.forEach(fountain => {  
        const row = document.createElement('tr');  
  
        // ID  
        const idCell = document.createElement('td');  
        idCell.textContent = fountain.id;  
        row.appendChild(idCell);
```

```

// Flow Rate
const flowRateCell = document.createElement('td');
flowRateCell.textContent = fountain.flowRate;
row.appendChild(flowRateCell);

// Status
const statusCell = document.createElement('td');
statusCell.textContent = fountain.malfunction ? 'Malfunction' : 'Operational';
if (fountain.malfunction) {
    statusCell.style.color = 'red';
} else {
    statusCell.style.color = 'green';
}
row.appendChild(statusCell);

tableBody.appendChild(row);
});
});

```

Output :

Water Fountain Status

Fountain ID	Flow Rate (L/min)	Status
1	2.5	Operational
2	1.2	Malfunction
3	3.1	Operational