SMART WATER FOUNTAIN

PHASE 4

To create a real-time water fountain status platform, you'll need to use a combination of HTML for structure, CSS for styling, and JavaScript for interactivity. Additionally, you'll likely need a backend server to handle real-time data updates. Here's a basic outline to get you started:

Step 1: Set Up the Project

- 1. Create a new directory for your project.
- 2. Inside this directory, create the following files:
 - index.html: for the main structure of the platform.
 - style.css: for styling the platform.
 - script.js: for handling interactivity and real-time updates.
 - server.js: to simulate a backend server (for testing purposes).

Step 2: Design the HTML Structure

In your 'index.html' file, set up the basic structure:

HTML:

```
<div id="malfunction">Malfunction Alert: <span id="malfunctionValue">No</span></div>
  </div>
<script src="script.js"></script>
</body>
</html>
Step 3: Style the Platform
In your 'style.css' file, you can add some basic styles. Customize these as per your
design preferences:
Css:
body {
 font-family: Arial, sans-serif;
  text-align: center;
}
.container {
  margin: 50px auto;
  max-width: 600px;
  padding: 20px;
  border: 1px solid #ccc;
  border-radius: 10px;
  background-color: #f9f9f9;
}
h1 {
  margin-bottom: 20px;
}
#flowRate, #malfunction {
 font-size: 1.2em;
```

margin-bottom: 10px;

#malfunctionValue {

}

```
color: #FF0000; /* Red for alert */
}
...
```

Step 4: Implement Real-Time Updates

In your 'script.js' file, use JavaScript to simulate real-time updates. For the sake of this example, we'll use a timer to update the values:

JAVASCRIPT:

```
function updateFlowRate() {
    const flowValue = Math.random() * 10; // Simulated flow rate (replace with actual data)
    document.getElementById('flowValue').textContent = flowValue.toFixed(2);
}

function updateMalfunctionAlert() {
    const malfunctionValue = Math.random() > 0.8; // Simulated malfunction (replace with actual data)
    document.getElementById('malfunctionValue').textContent = malfunctionValue ? 'Yes' : 'No';
}

setInterval(() => {
    updateFlowRate();
    updateMalfunctionAlert();
}, 5000); // Update every 5 seconds (adjust as needed)
....
```

Step 5: Set Up a Backend Server (Optional)

If you have a real backend that provides data, you can replace the simulated data with actual API calls in 'script.js'.

In 'server.js', you would set up routes to handle data requests from your front end.

You can now test your platform locally by opening 'index.html' in a web browser. If everything works as expected, you can deploy it to a web server for public access.

this is a basic example and you may need to adapt it based on your specific requirements and the technologies you're using for real-time data retrieval.