SMART WATER MANAGEMENT

Abstract:

An IoT smart water meter tracks the quality, pressure, and consumed quantity of water in a household or industry. An IoT smart water sensor can be used to track the flow of water across the entire plant and over the distribution channels. Helping in leakage detection, to reduce water wastage

Use of IOT in Water Tank

When the water is running, the IoT system will measure the water velocity and volume consumed by the household. This data is sent to the Blynk cloud server through an internet gateway. The user can see this data by accessing the Blynk server with a Blynk client application that is installed on the mobile phone

Monitoring using IOT

- IoT can help you watch the health of water equipment and detect problems, like leaks in pipes. This allows operators to receive alerts and start fixing issues immediately.
- In addition to this,the IOT water quality measuring system monitors the quality of water in real-time using various sensors which sense pH level, conductivity, TDS, Salinity, and Temperature to know the live water quality status of water.

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Technology used in IOT

Smart water systems use equipment and technology like sensors, control panels and wireless communication to detect and relay information about leaks and changes in water pressure.

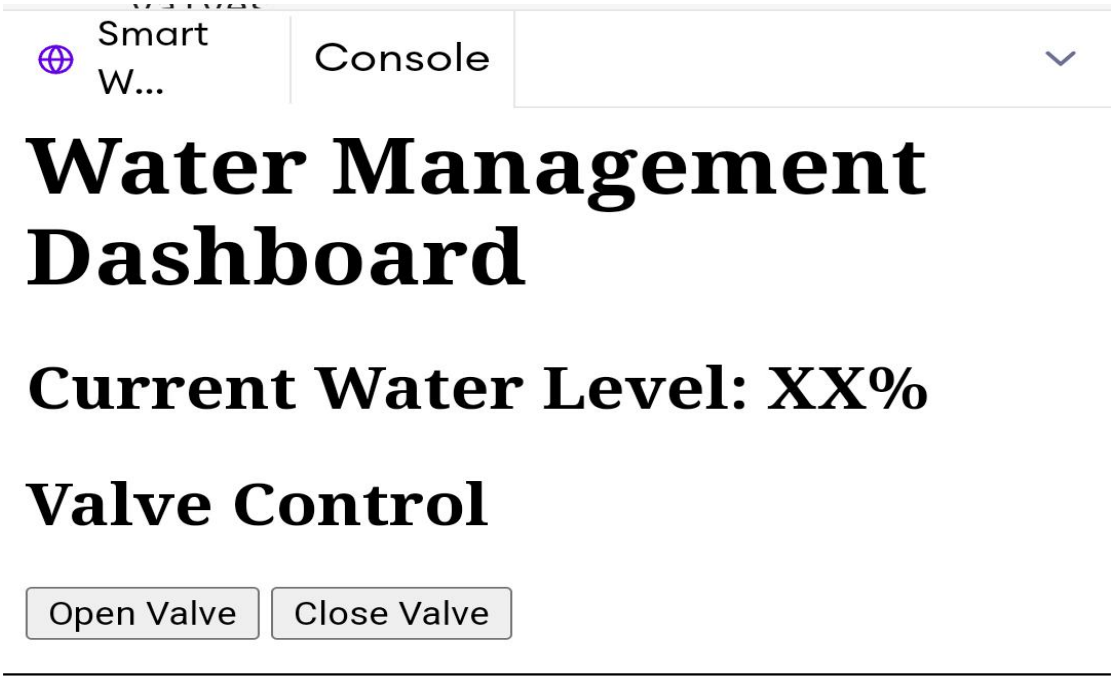
HTML web technology :

Code

```
<!DOCTYPE html>
<html>
<head>
    <title>Smart Water Management</title>
</head>
<body>
    <h1>Water Management Dashboard</h1>

    <div id="water-level">
        <h2>Current Water Level: <span id="water-level-
value">XX%</span></h2>
    </div>

    <div id="valve-control">
        <h2>Valve Control</h2>
        <button id="open-valve">Open Valve</button>
        <button id="close-valve">Close Valve</button>
    </div>

    <div id="usage-history">
        <h2>Water Usage History</h2>
        <table>
            <tr>
                <th>Date</th>
                <th>Usage (gallons)</th>
            </tr>
            <!-- Populate with data using JavaScript or a backend framework -->
```

```
        </table>
    </div>

    <!-- JavaScript for interactivity -->
    <script>
        // You would need JavaScript to update the water level and control valves.
        // You'd also need a backend server to manage data and sensor communication.
        // This is just a basic HTML structure.
    </script>
</body>
</html>
```

OUTPUT:



SMART WATER MANAGEMENT

Reprentation :

Performance of MobileApp

The mobile app development companies are focusing on the Smart water management fields. With the aid of IoT sensors, tracking water levels in the reservoirs is possible. The main role of sensors is to send data to the cloud in periodic intervals.

SMART WATER MANAGEMENT

Benefits

An IoT intelligent water management system for irrigation typically leverages soil moisture, rain, water flow, and weather sensors. What are the benefits of a smart water tank monitoring system? Such a system helps determine and adjust water levels remotely and detect leakages.