



TECH TITANS



WATER SUPPLY NETWORK MANAGEMENT

DOMAIN: INTERNET OF THINGS & WEB DEVELOPMENT



Problem Statement

Water supply network management plays a crucial role in ensuring the **reliable delivery of clean and safe** drinking water to communities.



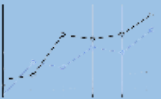
**Leak Detection
and Water Loss**



**Water Quality
Management**



**Water Quantity
Level**



Water Flow Rate



pH Level of Water



**Authenticated
Water Networks**

To address these challenges, there is a pressing need for a user-friendly **Water Management Website** that empowers users to know their water usage effectively in real time.

Survey



Pipeline Networks
1 Trillion Gallons
68% Water wasted



Compliants
Regarding Supplies
1 Million
During 2023



Only
2%
Quality water
cases reported
in 2022



Contamination
Water resource
88%
Dominated by
impurities

2.8 Thousand
such cases
In 2023





Proposed Solution & Interface Design



FEATURES

#1

**Leak Detection and
Water Loss**

#2

**Water Quality
Management**

#3

**Water Quantity
Level**

#4

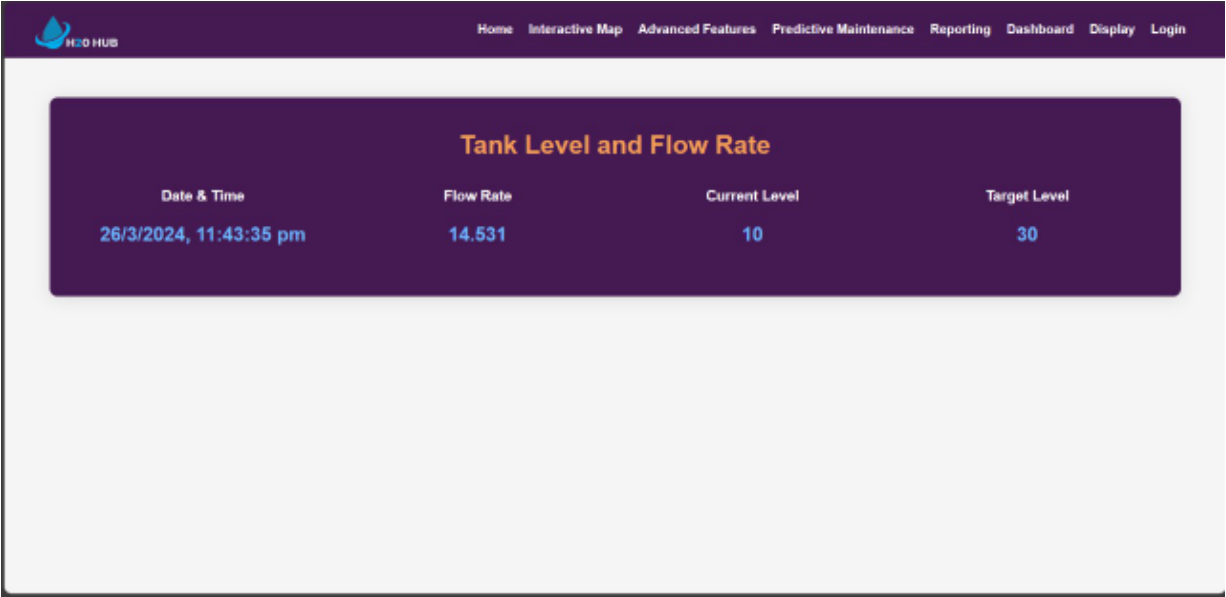
Water Flow Rate

#5

pH Level of Water

#6

**Authenticated
Water Networks**



The screenshot displays the H2O HUB dashboard. At the top, a dark purple navigation bar contains the 'H2O HUB' logo on the left and a series of menu items: Home, Interactive Map, Advanced Features, Predictive Maintenance, Reporting, Dashboard, Display, and Login. The main content area features a dark purple card titled 'Tank Level and Flow Rate' in orange text. Inside this card is a table with four columns: Date & Time, Flow Rate, Current Level, and Target Level. The table contains one row of data with the following values: 26/3/2024, 11:43:35 pm; 14.531; 10; and 30.

Date & Time	Flow Rate	Current Level	Target Level
26/3/2024, 11:43:35 pm	14.531	10	30

Leak Detection and Water Loss

Vigilant Monitoring

Resource

Conservation

FEATURE

#2



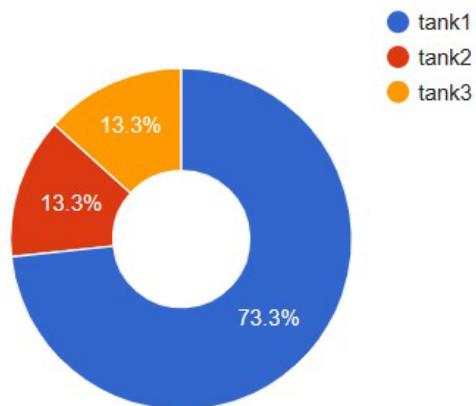
Water Quality Management

Quality Assurance



Water Quantity

Daily Activities



Water Quantity Level

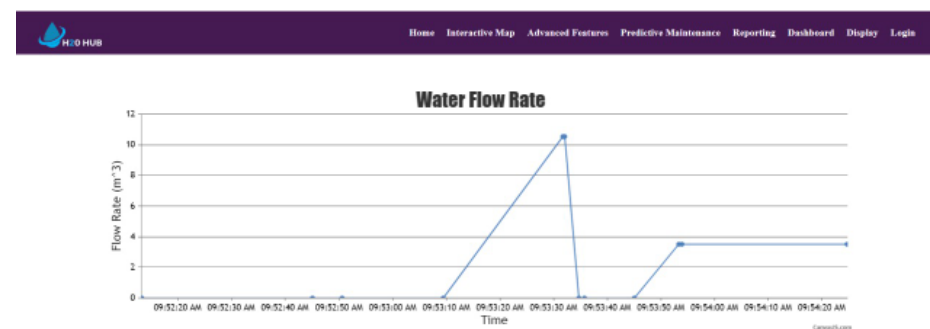
Quantity Monitoring

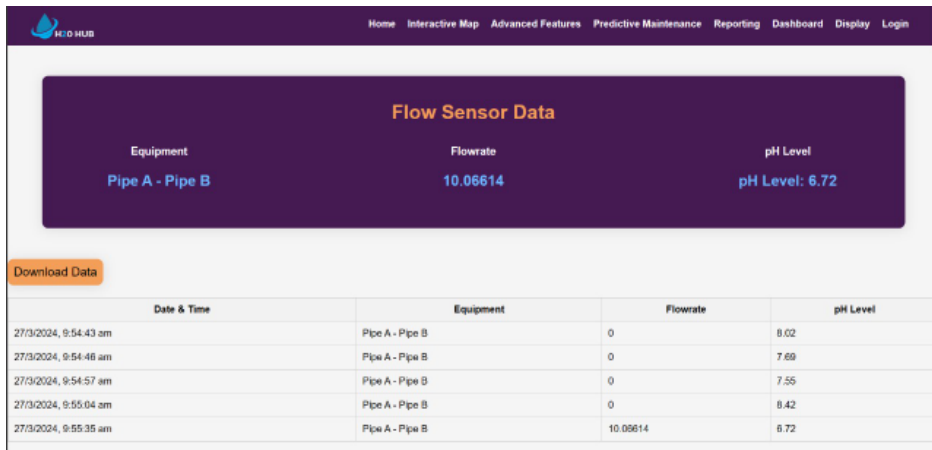
FEATURE

#4

Water Flow Rate

Flow Measurement





Flow Sensor Data			
Equipment	Flowrate	pH Level	
Pipe A - Pipe B	10.06614	pH Level: 6.72	

Download Data

Date & Time	Equipment	Flowrate	pH Level
27/3/2024, 9:54:43 am	Pipe A - Pipe B	0	8.02
27/3/2024, 9:54:46 am	Pipe A - Pipe B	0	7.69
27/3/2024, 9:54:57 am	Pipe A - Pipe B	0	7.55
27/3/2024, 9:55:04 am	Pipe A - Pipe B	0	8.42
27/3/2024, 9:55:35 am	Pipe A - Pipe B	10.06614	6.72

pH Level of Water

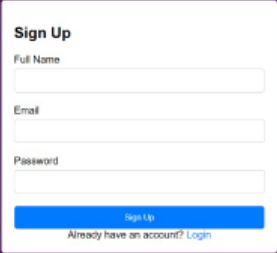
Monitor the pH which help to analyse the Quality

FEATURE

#6

Authenticated Water Networks

Provides Safe Network for Confidential areas



Sign Up

Full Name

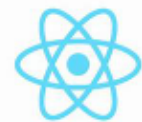
Email

Password

[Sign Up](#)

Already have an account? [Login](#)

Prototype & Technology Stack



React



Firebase

Real-Time
Verification

All-in-One
Solution

Easy to
predict
from our
place

Uniqueness

Reducing
Cost and
Time

Authentication
control

Hygiene
water to
consume



H2O HUB





Customer Segment

- ✓ Individual Web users
- ✓ Municipalities and Water Utilities
- ✓ Residential Consumers
- ✓ Research Institutions and Academia
- ✓ Water Treatment and Engineering Firms



TECH TITANS

Revenue Streams ●●●



**Subscription
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**Premium
Support**



**AdGrow
Promotions**



Thank
you