MUP Problem Brief

Team No: 7

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Smart Water Management

#1 Problem Statement
Describe the problem statement as it is faced in the real-world by the target beneficiaries.

The Smart Water Management System solves the major water scarcity problem in the city that are faced by citizens on a daily basis. This system solves major problems like

- Surprising water timings
- Wastage of water
- Managing water flow
- Contaminated water

#2 Target User & Use-Case
From the different scenarios in which the problem is faced, describe the specific use-case you wish to target.

1. Automated control over the water pipelines.
2. Provides analysis of water being used and wasted.
3. Regulated and notified water timings.

The Target user is going to be the **Government,** while the system will be benefited by citizens

#3 Gap Assessment
How does the target user solve the problem today? What are the gaps/challenges in the way the problem is solved today?

- Water flow are controlled manually
- Irregular and unnoticed supply of water
- Inadequate water supply to crowded residential areas

What are the other alternatives available in the market today? What are the gaps/shortcomings?

There is no Automated system readily available on the market.

#4 Utility (features & functionality) Requirements
Describe the specific Job the target user wants to complete (get done)?
What are the expected outcomes?

- Centralized Control center setup.
- The system is centralized and hence setup of multiple control stations will be required.
- Water flow and water quality system needs to be installed.
- Automated water flow control pipeline

Which pains are to be relieved?

- Inadequate water supply and wastage

Which gains are to be created?

- Effective utilization of drinking water
- Water timing will be notified
- Clean water

#5 Usability & Deployment Constraints
What are the constraints to be addressed/overcome in making the solution useful & usable to the target user?

- 24*7 Power supply to control stations
- Network and Power to IOT Devices / GSM
- Basic knowledge about computer

What minimum expectations have to be met in order for the solution to be accepted as a permanent solution by the target user?

Minimum automation requirement is satisfied.

#6 Other References/Details
Indicate other details or reference materials to know more about the user/use-cases and the existing solutions/alternatives.