IDEATION PHASE 1

Team ID	PNT2022TMID30644
Project Name	Real Time River Water Quantity Monitoring And Control System
Maximum marks	4 Marks

PROBLEM SOLUTION FIT:

1.<u>CUSTOMER SEGMENT(S)</u>

    Local government and regular citizens.

2.<u>PROBLEMS / PAINS</u>

    All living things have numerous issues while consuming contaminated water.

3.<u>TRIGGERS TO ACT</u>

    Here, the goal is to foresee river water contamination and raise public awareness of the issue.

4.<u>EMOTIONS</u>

    In order to prevent individuals from drinking polluted water, the outcome is precisely predicted with relation to water contamination.

5. <u>AVAILABLE SOLUTION</u>

    Water quality may be precisely measured using a variety of sensors, making it accessible in all off-the-grid locations.

6. <u>CUSTOMER LIMITATION</u>

    Costly, uncertain of accuracy, not available in all areas.

7.<u>BEHAVIOR</u>

The water is deemed to be contaminated if there is even a slight change in its parameters, thus the sensors must be able to analyse that slight change and precisely forecast it.

8. CHANNELS of BEHAVIOUR

Online:

The customer uses a web application to analyse different water parameters.

Offline:

A web application is used by the customer to analyse various water parameters.

9. PROBLEM ROOT / CAUSE

Nutrient pollution (industry), eutrophication, algal blooms, and other factors could contaminate the water.

10. YOUR SOLUTION

In order for the user (who consumes the water) to be aware of the water he/she consumes and prevent ingesting when the water is contaminated, the water should be monitored by employing sensors and gather its temperature, Ph value, and Turbidity value.