

PROJECT TITLE: Real-Time River Water Quality Monitoring and Control System

TEAM ID: PNT2022TMID05726

1.Customer Segment(s): People who use the river water for their daily purpose and Local authorities who checks the contamination of the chemicals in the water bodies.	6.Customer Limitations: The equipment may not be easily affordable, Accuracy may not be cent percent.	5.Available Solutions: There are some solutions available by using sensors in IOT which detects the temperature, PH, amount od oxygen dissolved in the water.
2.Problems/Pains: Cosumption of contaminated water leads to various health issues for local people and other living organisms. Repetative contamination of the water leads to destruction of the eco-system of the water bodies.	9.Root/Cause: The cause of water contamination is due to the disposal of insdustrial wastes, Agricultural waste which contains excess of nitrogen and sulphur leads to eutropication, Alagal blooms etc...	7.Behavior: They report it to the local authorities about the condition of the water. They also user PH paper to identify the contamination which is widely available.
3.Tiggers to Act: We can trigger people by seeing their neighbour utilizing the technology in effective way and by providing cost efficient solution such as mobile app.	10.Your Solution: <ul style="list-style-type: none">• River water quality can be monitored by the web application.• Can be able to know if there are any dust particles present in the water.• The PH level of the water can be monitored.	8.Channels of Behavior: Online: Customers use web application to read the parameters of the water. They can also provide rating for the system. The software used should be studied by everyone to operate it.

<p>4.Emotions:</p> <p>Before: People find it difficult to do fishing, provision of drinking water, agriculture, destruction of eco-system etc.</p> <p>After: The above-mentioned problem can be overcome by implementing this project.</p>	<ul style="list-style-type: none"> • Water temperature can be monitored. • Alerting the authorities if the water quality is not good so that they can go and announce the localities not to drink that water. 	<p>Offline: CustoeMrs recive notification or a message regarding the contamination of the water by the authorities.</p>
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