PROJECT OBJECTIVE

Date	29 October 2022
Team ID	PNT2022TMID40953
Project Name	Real time river water quality monitoring and control system
Maximum Marks	4 Marks

Project Objectives:

- The main objective of this project is to monitor the quality of river water.
- In this project we provide an effective solutions for monitor the quality of river water.
- This system is the most efficient and user friendly way for monitoring the quality of river water in real time by iot
- The main aim is to develop a system for continuous monitoring of river water quality at remote places using wireless sensor networks with low power consumption, low-cost and high detection accuracy.
- pH, conductivity, turbidity level, etc. are the limits that are analyzed to improve the water quality.
- By the end of this project you will:
- Gain knowledge of Watson IoT Platform.
- Connecting IoT devices to the Watson IoT platform and exchanging the sensor data.
- Gain knowledge on Cloudant DB

- Creating a Web Application through which the user interacts with the device.

Project Flow:

- Sending random pH values and turbidity values will be sent to the IBM IoT platform
- Sensors values can be viewed in the Web Application
- Notifies the admin the random values cross the threshold value

Project Description:

- 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.
- 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.