# Project Objectives

|  |  |
| --- | --- |
| Team ID | PNT2022TMID50061 |
| Project Name | Real-Time River Water QualityMonitoring and  Control System |

**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

To accomplish this, we have to complete all the activities and tasks listed below:

* Create and configure IBM Cloud Services
  + Create IBM Watson IoT Platform
  + Create a device & configure the IBM IoT Platform
  + Create Node-RED service
  + Create a database in Cloudant DB to store location data
* Develop a web Application using Node-RED Service.
  + Develop the web application using Node-RED
* Develop a python script to publish the location details to the IBM IoT platform.