Project Planning Phase
Milestones and Activity List

Date	24 October 2022
Team ID	PNT2022TMID52890
Project Name	Real-Time River Water Quality Monitoring and Control System

Remote River Monitoring and Control System

Milestones

2 September 2022

Collected the relevant papers regarding the project and concluded the ideation phase with creation of appropriate maps

29 September 2022

Prepared the appropriate solution fit documents and the solution architecture thereby establishing a proper map for the solution to the problem statement proposed, successfully concluding phase I of project design.

October 2022

12 October 2022

Prepared the customer journey map, technology architecture and the data flow diagrams to give a better understanding into the consequent progress of the project from the customer's end, thereby concluding phase II of project design

21 October 2022- Pre-Requisites

Logged into the cloud using the acquired credentials and started working on installing the pre-requisite software and getting ready Node-Red, IBM IoT platform, App Developing Tools, and the required device for the project

November 2022

27 October 2022- Configuring IBM Services

- *Deployment of Node-Red service to be done*
- *IBM Watson IoT platform to be curated*
- *In the IBM Watson IoT platform, a new device to record and log data into the IBM Cloud to be created,*
- *A database to be constructed in the cloudant DB*

2 November 2022- Creation of Python Script

Write a code in python to facilitate the sending of data to the cloud using the device raspberry pi while ESP32 to be used to send in data to the the cloud regarding depth of the river for which monitoring had to be handled

6 November 2022- Creation of Web Application using Node-Red and Mobile App

A web application to be constructed using Node-Red and a mobile app to display th sensor readings like pH, turbidity and salinity values.

10 November 2022- User acceptance Testing

12 November 2022- Updation of Sprint Delivery Plan

14 November 2022- Consolidation of Project Work as a Report