Project Design Phase-II Data Flow Diagram & User Stories

| Date	10 November 2022
Team ID	**PNT2022TMID42971**
Project Name	**Real –Time River Water Quality Monitoring and Control System**
Maximum Marks	4 Marks

Data Flow Diagrams:

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.
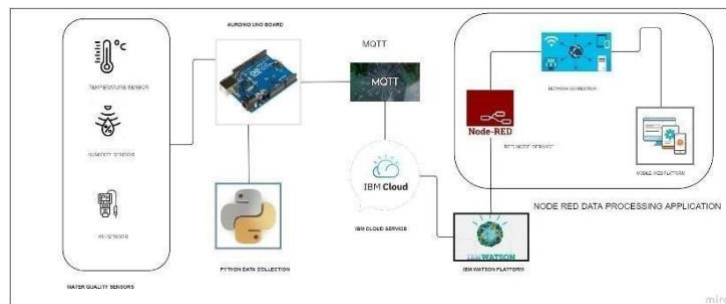
DATA FLOW: **DATA FLOW DIAGRAM:**
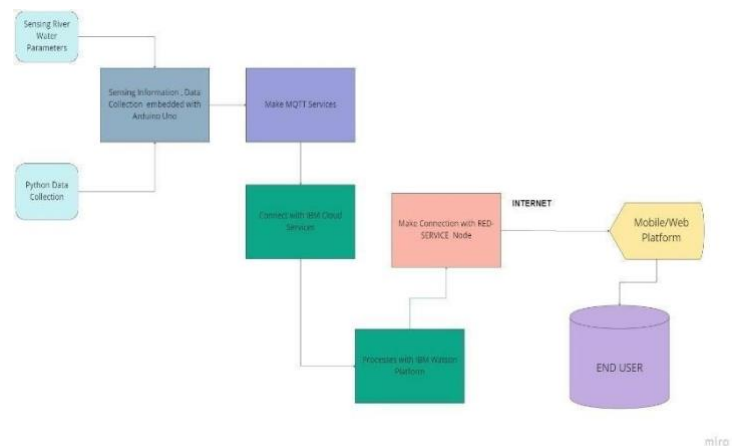
Sensing the water Parameter with sensors and Collecting Water parameter Data using Python.

Made Several Embedded Connection with Ardiuno Uno Board and also have some MQTT Service Connection.

Make IBM Cloud Connectivity and Also with IBM Watson Service.

Made Connection with RED-Service Node
Finally End Users can monitor the information through Mobile/Web Platform

User Stories:

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Mobile user/remote user)	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	I can access my account / dashboard	High	Sprint-1
	Notification	USN-2	As a user, I will receive confirmation email once I have registered for the application	I can receive confirmation email & click confirm	High	Sprint-1
	Signup through third parties	USN-3	As a user, I can register for the application through Facebook	I can register & access the dashboard with Facebook Login	Low	Sprint-2
		USN-4	As a user, I can register for the application through Gmail	I can register and access the dashboard with Google credentials	Medium	Sprint-1
	Login	USN-5	As a user, I can log into the application by entering email & password	I can register and access the dashboard through the application cred	High	Sprint-1
	Dashboard					
Customer (Web user)		USN-6	As I am a customer I need a proper support and	Each and every process was under firewall	High	Each sprint

			service	/security protocol		
Customer Care Executive		USN-7	24/7 service can provided by company			Sprint 3
Administrator		USB-8	Who will have the entire access of this project	All the access was with encrypted	High	Each sprint