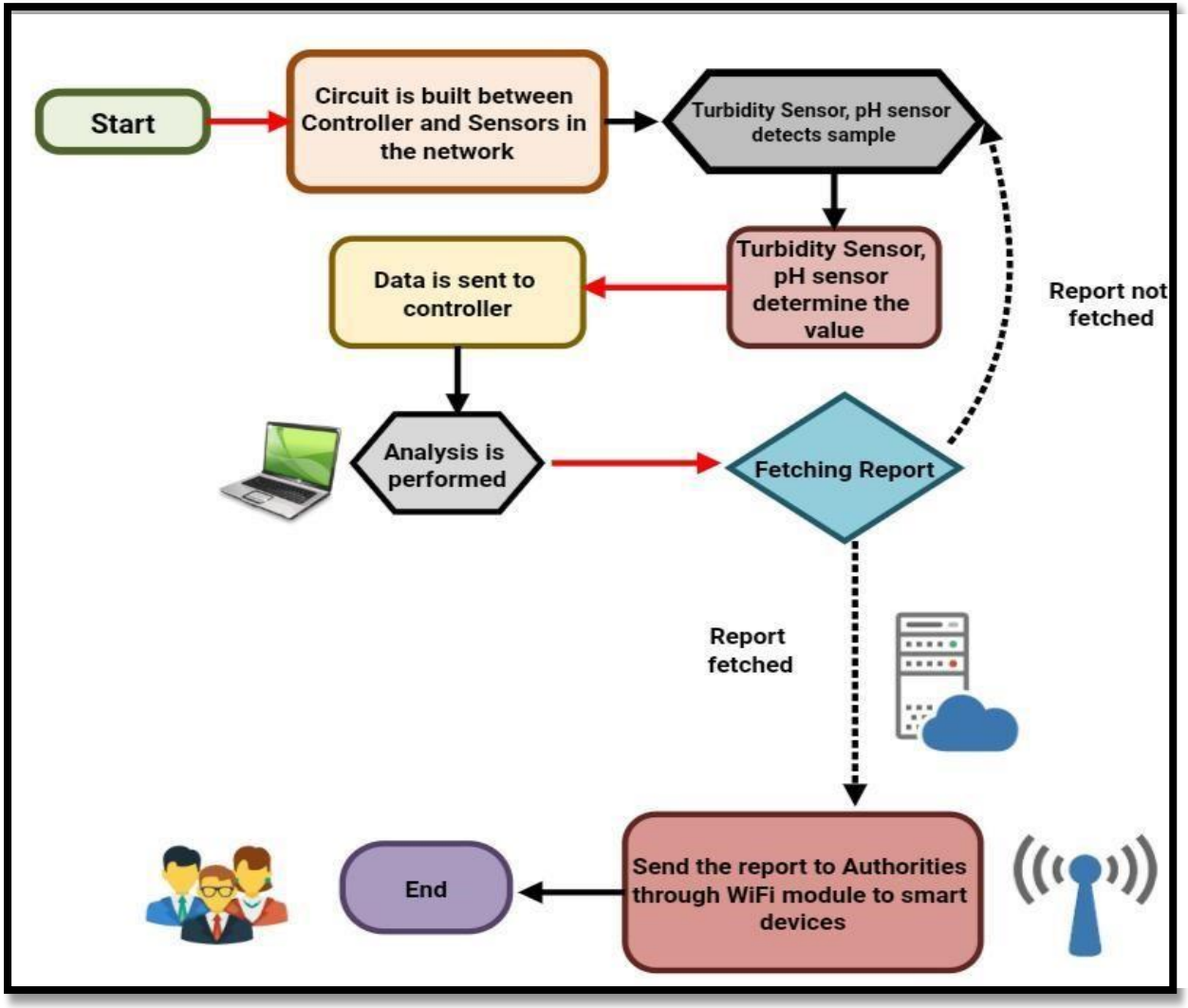
Project Design Phase-II
Data Flow Diagram & User Stories

Date	21 October 2022
Team ID	PNT2022TMID07167
Project Name	Real-time River water quality monitoring and control system
Maximum Marks	4 Marks

Data Flow Diagram:


Start
Circuit is built between Controller and Sensors in the network
Turbidity Sensor, pH sensor detects sample
Turbidity Sensor, pH sensor determine the value
Data is sent to controller
Analysis is performed
Fetching Report
Report not fetched
Report fetched
Send the report to Authorities through WiFi module to smart devices
End

User Stories

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Mobile 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
		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
		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 through the mail	Medium	Sprint-1
	Login	USN-5	As a user, I can log into the application by entering email & password	I can receive login credentials	High	Sprint-1
	User Interface	USN-6	As a user, I should not need any pre requisites to handle the UI	I can use it in a friendly manner.	Medium	Sprint-1
Customer (Web user)	Dashboard	WUSN-1	As a web user, able to access the inputs from the sensors	I can know quality of water.	High	Sprint-1
Customer Care Executive	View Manner	CCE-1	As a customer care, Data visualization must be in good understandable view.	I can understand the various data comparisons by visuals.	High	Sprint-1
	Taste	CCE-2	As a customer care, I can able to view the composition of water (e.g. Minerals, etc.)	I can know the composition and whether healthy to drink or not.	High	Sprint-1
	Colour Visibility	CCE-3	As a customer care, I should know the water colour	I can Know its colour.	High	Sprint-1
Administrator	Risk Tolerant	ADMIN-1	Administrator should handle the system, server and take care of the application.	Admin should monitor and store the records with caution.	High	Sprint-2