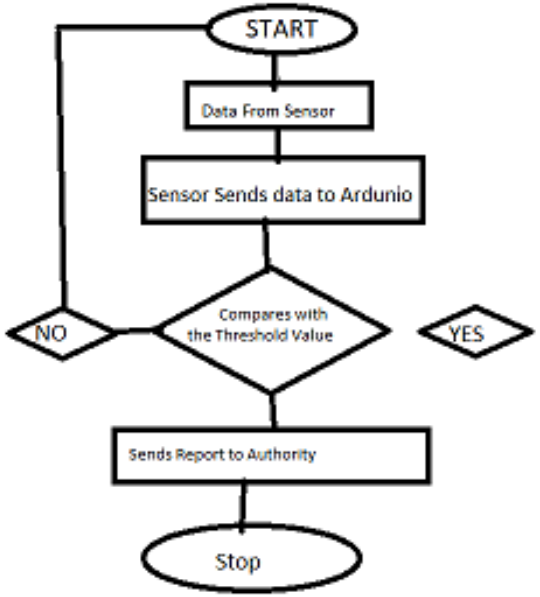
Project Design Phase-II
Data Flow Diagram & User Stories

Date	23 October 2022
Team ID	PNT2022TMID52011
Project Name	Project -Real time River water quality monitoring and control.
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.



User Stories

Use the below template to list all the user stories for the product.

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		Medium	Sprint-1
	Login	USN-5	As a user, I can log into the application by entering email & password		High	Sprint-1
	Confirmation	USN-6	Confirmation via E mail confirmation via OTP		High	
Sensors	Detection	USN-7	TDS Sensor - It is a small hand held devices used to indicate the TOTAL DISSOLVED SOLIDS in a solution ,usually water			
	Ph level detection	USN-8	Ph sensor is used to monitor the water quality and the signals are send to Arduino.			
	Turbidity detection	USN-9	Turbidity sensor TS-300B measures the turbidity (counter of suspended matter) in the wash water and the signals are send to Arduino.			
	Temperature Detection	USN-10	It is capable of measuring temperature in the range of -5 degrees centigrade to +50 centigrade with a resolution of 0.1 degree			