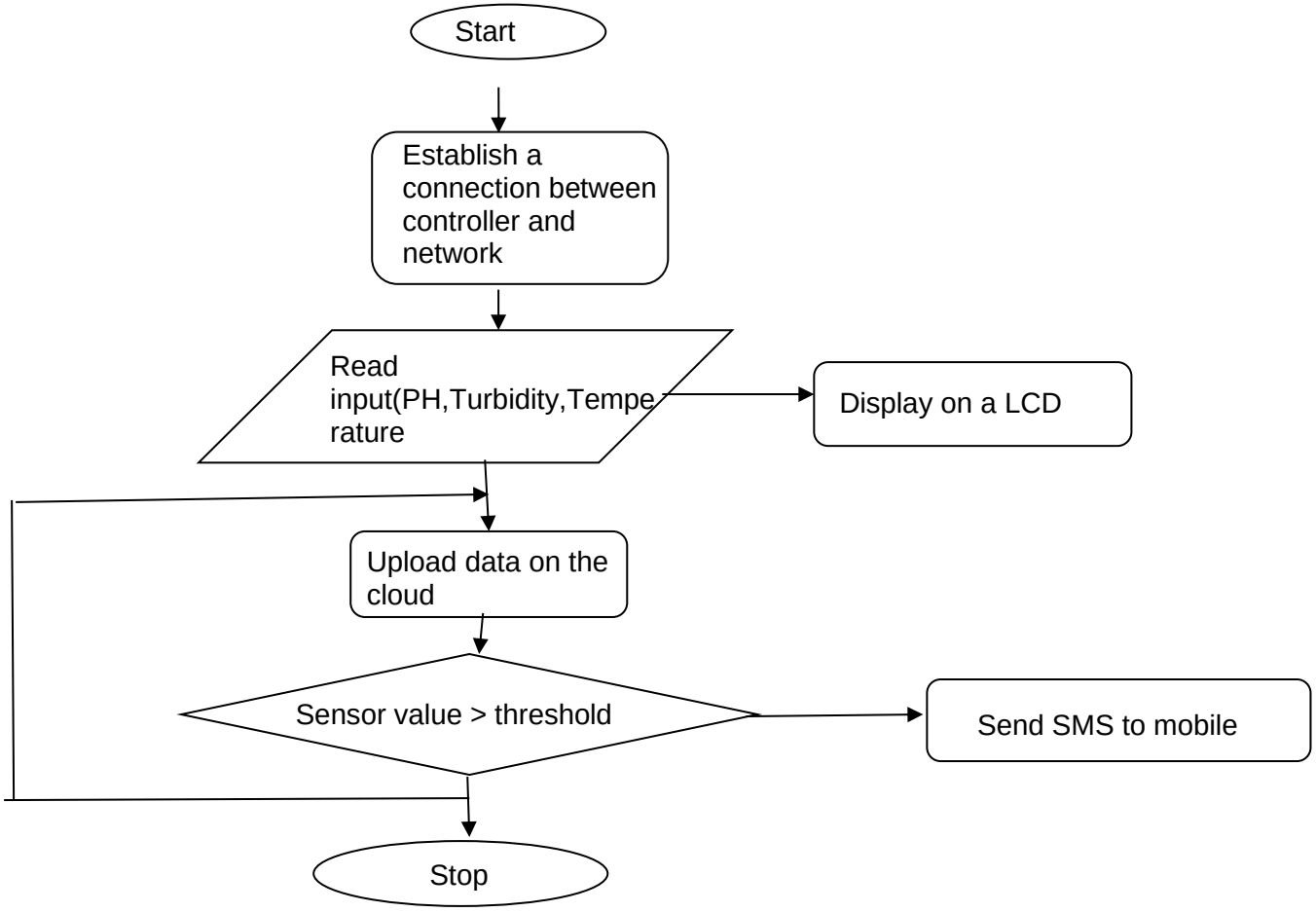
Project Design Phase-II Data
Flow Diagram &User Stories

Date	22 October 2022
Team ID	PNT2022TMID07790
Project Name	Project – **REAL TIME RIVER WATER QUALITY MONITORING AND CONTROL SYSTEM**
Maximum Marks	4 Marks

Data Flow Diagrams:



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
Circuit designer	Designing the circuit	USN-1	As a user, I can design the circuit by using open source software.	I can get the exact design for my project.	High	Sprint-1
		USN-2	As a user, I can design the circuit by using free web app like Tinkercad.	I can make several attempts to get the right design.	High	Sprint-1
Programmer	Create a program suitable for the circuit	USN-3	As a user, I can create programs in the user friendly language.	I can create a simple program for the circuit	High	Sprint-1
		USN-4	As a user, I can compile and execute the programs.	I can get the program with accurate outputs.	High	Sprint-1
Engineer	Connects the output to the cloud	USN-5	As a user, I can connect the output values to the cloud services by using NODE RED.	I can make the data to receive in cloud.	High	Sprint-1
	Store the output values	USN-6	As a user, I can make the data store in IBM cloudant database.	I can retrieve the data anywhere, anytime.	Medium	Sprint-2
	Connects the cloud data with the authorities communication device.	USN-7	As a user, I can produce connection to the authorities mobile phones so that they can receive the alerts.	I can make the authorities informed about the water's quality.	Medium	Sprint-2
	Alerts has to be sent to the authorities	USN-8	As a user,I can make use of platforms such as Fast SMS to send the timely updates to the authorities.	I can make the authorities to get accurate values and alerts	High	Sprint-1
Authorities	Checks the water quality alerts	USN-9	As a user ,I check the quality values of the water that is sent to me .	I can make sure that the people in my zone gets quality water.	High	Sprint-1
Maintenance	Monitoring	USN-10	The entire IOT system is get maintained	It increase the efficiency and functionality of the system.	Low	Sprint-3
Administrator	Manage	USN-11	All the datas are get recorded	The stored data used for future references.	Medium	Sprint-1