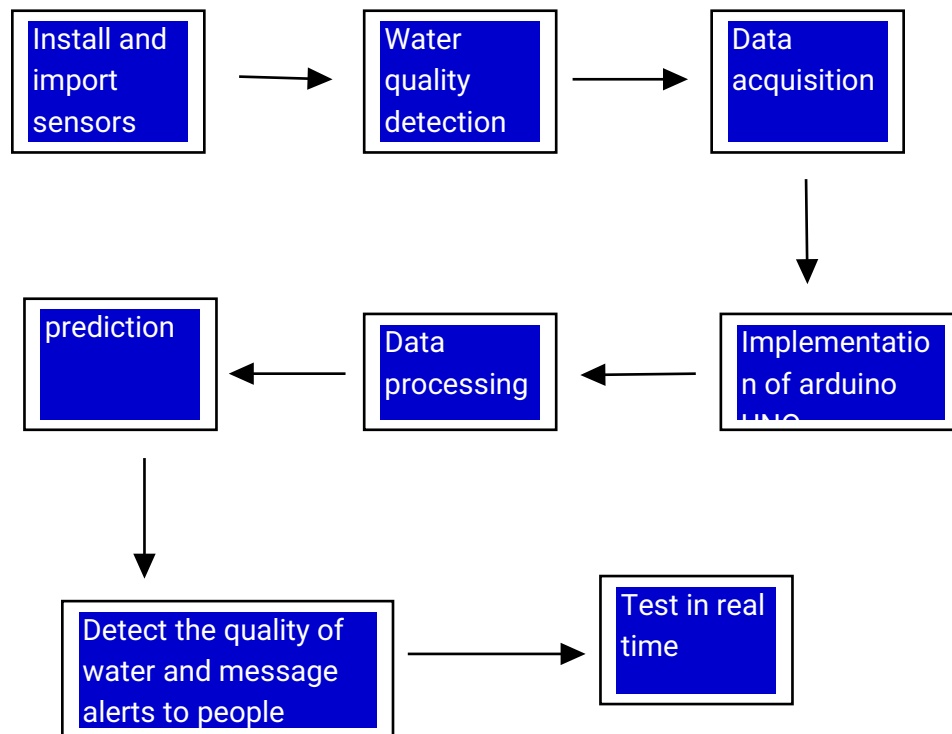


Project design phase – II

Data flow diagram & User stories

Date	03-October-2022
Team id	PNT2022TMID48312
Project name	Project-Real Time River Water Quality Monitoring and Control Systems
Maximum marks	4 marks

Data flow diagram:



Flow:

- ❖ We start collecting data from cloud services and collect a bunch of data from sensors.
- ❖ Save data in the form of numpy arrays.



- ❖ We then implement arduino UNO without.
- ❖ The number of sensor for the models determined by us, if we increase the number of sensors, the accuracy increases.
- ❖ But it requires much more time for implementing more sensors.
- ❖ Once detection is done, we can use this model for real time water quality detection and simultaneously used to detect PH value of water and temperature of the water.

User stories:

User type	Functional requirement	User story number	User task story/	Accepture criteria	Priority	Releas e
Develope r	System building	USN-1	Collect data set	I can collect data set	High	Sprint-1
		USN-2	Collecting data from sensor	I can collect from sensor	High	Sprint-2
		USN-3	Implementing arduino UNO from data collection	I can implement arduino UNO from data collection	High	Sprint-3
		USN-4	Message alert to people	I can receive message	High	Sprint-4



		USN-5	People identify the problem and resolve it by using mobile application	I can identify the problem and I try to resolve it	Medium	Sprint-5
Customer	Adoption	USN-1	Adopting new technology for boosting production	I can adopt new technology	Low	Sprint-1
	Detection	USN-2	Detect the quality of river water and PH value	I can detect the quality of water monitoring	High	Sprint-2

