Project Design Phase-II Solution Requirements (Functional & Nonfunctional)

Date	25 October 2022
Team ID	PNT2022TMID30781
Project Name	Real Time River Water Quality Monitoring and
	Control System
Maximum Marks	4 Marks

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User registration	Registration with Gmail
		Create an account
		By the Follow the instructions
FR-2	User Confirmation	Confirmation via
		Alarm
		Confrimation via SMS
FR-3	Interface sensor	Interface sensor if contaminated water enter in the river
		it gives alarm.
FR-4	Accessing datasets	Datasets are retrieved from Cloudant DB
FR-5	Mobile application	Only can see water is contaminated or not. Had not using
		mobile application.

Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The smart protection system defines that this project
	-	helps people to protect the drinking water and
		agriculture.
NFR-2	Security	We have designed this project to secure the water
		from contaminated water or chemical or sewage.
NFR-3	Reliability	This project will help people"s in protecting their
	-	water and save them from diseases.
NFR-4	Performance	IOT devices and sensors are used to alert the station
		control person by a message when contaminated
		water enter in river.
NFR-5	Availability	By developing and deploying resilient hardware and
		software we can protect the river from contamination
		chemicals,sewage etc
NFR-6	Scalability	This project used to collect real time information in
		water and measure quality.