Project Design Phase-II Solution Requirements (Functional & Non-functional)

Date	15 October 2022		
Team ID	PNT2022TMID08065		
Project Name	Project-Efficient water Quality analysis & Prediction using machine learning		
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 Requirement	Monitoring water quality ,water flow and temperature to control water pollution and algal bloom.		
FR-2	User Registration	Manual Sign-Up using a website or Gmail.		
FR-3	User Confirmation	OTP authentication through phone messages,gmail,notices,paper and confirmation.		
FR-4	Product Implementation	Installing the product to monitor water quality for checking the confirmation by using website		
FR-5	Payment option	Bank transfer, Debit cards, UPI Method.		
FR-6	Product Feedback	Through the website ,phone conversion ,and Gmail.		

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description		
NFR-1	Usability	This application is used to describe the product and easy to access the product by the guidelines.		
NFR-2	Security	This Application security ensures the website by building a firewall and two step verification.		
NFR-3	Reliability	To maintain the product conditions and update the version of the product is up-to-date.		
NFR-4	Performance	This application collects the data of river water to provide accurate value .Using this method ,we can alert the locality right on time.		
NFR-5	Availability	Depending on the requirement of the user, all required functions will be offered. when the user requests a features made available in places where users like to know about it.		
NFR-6	Scalability	Regardless of size, the product must fill the entire river's space. The product is based on monitoring water quality, flow, humidity, and temperature as well as controlling algal blooms.		