

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

Date	06 NOVEMBER 2022
Team ID	PNT2022TMID19061
Project Name	IOT Based 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 Login	Confirmation through verified password
FR-2	View Water Details	View current water details in website View traditional water eligibility in website
FR-3	Logout	Logs out the user successfully

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	It is efficient to use and has simple monitoring system.
NFR-2	Security	IoT networks are incredibly safe and communication speed is also high. Account creation done only after email verification. The technology comfortably resolves all the issues.
NFR-3	Reliability	Users can access their account 98% of the time without failure
NFR-4	Performance	Load time for user interface screens shall not be more than 2 seconds. Login info verified within 10 seconds.
NFR-5	Availability	The monitoring system is made available for use at anytime with accuracy.
NFR-6	Scalability	System can handle about 1000 users at any given time