

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

	12 October 2022
Team ID	PNT2022TMID46761
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 Login	Confirmation through password verification
FR-2	View Water Details	Measured pH, temperature, turbidity values provides the detail about quality of water bodies
FR-3	Logout	Log 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	Load time for user interface screen shall not be more than 2 seconds.
NFR-2	Security	User account is password protected Account creation done only after email verification
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	Maximum down time will be about 4 hours
NFR-6	Scalability	System can handle about 1000 users at any given time