

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

Date	05 NOVEMBER 2022
Team ID	PNT2022TMID42599
Project Name	Real time 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 through Gmail Registration by phone number
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	User Login (Web)	Login with registered mail id and password
FR-4	User Login (mobile app)	Login with registered mobile number and password
FR-5	User's water quality Information	In the app, enter your water quality details with date. Then set the time in the app.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The system should be user-friendly for the users. It is used to remain the water quality level. It alerts the users through app.
NFR-2	Security	The login information should not be accessed by any other users than the respective. The data of the users should be kept confidential.
NFR-3	Reliability	Reminds on correct time The user data should be updated and examined after certain period of time
NFR-4	Performance	The water quality level will be delivered accurately to the given time. It works without any connection interruption
NFR-5	Availability	The system should be monitored 24X7 for the alert of water quality. It can be used by any registered users from any place.
NFR-6	Scalability	It is easily adaptable The device is compatible and portable The application can handle any number of registration.

