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

Date	27 October 2022
Team ID	PNT2022TMID33916
Project Name	IOT Based Real-time River Water Quality Monitoring and Control System
Maximum Marks	04

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	Historical Data	The Data are stored in the cloud from the beginning stage till the Updation.
FR-4	User Authentication	The credentials is accessible only to the authorized users to access the model.
FR-5	Users Guidelines	There are some specific guidelines which has to be followed by the users.
FR-6	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**	Load time for user interface screens shall not be more than 2 seconds.
NFR-2	**Security**	User account is password protected and 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. For that High quality sensors are used to ease the customer's work.
NFR-5	**Availability**	The model is designed in such a way that are available, usable and can be modified anytime. Maximum down time will be about 4 hours.
NFR-6	**Scalability**	System can handle about 1000 users at any given time. The final data should be easily understandable.