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

Date	12 October 2022
Team ID	PNT2022TMID51098
Project Name	Real-time River Water Quality Monitoring and Control System
Maximum Marks	4 Marks

Functional Requirements:

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	Registration of users to track the river water quality	Fill out a form to register with your Gmail or mobile phone.
FR-2	User Confirmation	Gmail confirmation or an OTP
FR-3	User Sign-Up	Type a strong password to log in. Numbers and special characters are required in the password. Ideally, a password would have more than 8 characters.
FR-4	Details About the Water	View current water strategy details in website show in percentage to understand easy as well as faster and notification from regular interval of time to monitor the water from the website or login.
FR-5	Sign out	For security reasons, you should log out after seeing the information. However, since the site won't send you any notifications after you log out, so receive send an SMS to let you know about any changes.

Non-functional Requirements:

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	User interface screen loads cannot take more than two seconds.User friendly Monitring,
NFR-2	**Security**	Password protection for the user account Only after email verification is account creation completed If your password is forgotten, you can reset it by selecting the Forgot Password option, and a confirmation email will be sent to your registered email address.
NFR-3	**Reliability**	Users can successfully access their accounts 99.99% of the time.If issue found solve within 1 hour
NFR-4	**Performance**	The whole monitoring data should be accessible after logging in, with time and statistics charts for easier understanding.
NFR-5	**Availability**	It is accessible online at all times, from any location, using only internet-based methods.
NFR-6	**Scalability**	The system can support more users concurrently without experiencing delays. operating system is easy to use.