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

Date	03 October 2022
Team ID	PNT2022TMID14819
Project Name	Project -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 Registration	Registration through Gmail Registration through website Registration through LinkedIN
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Historical Data	The date is stored in the cloud from the beginning stage till the update
FR-4	pH detection	To monitor the water quality pH sensor is used
FR-5	O_2 Detection	The level of O_2 in the water is constantly measured

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	It should be easy to monitor the data
NFR-2	**Security**	Unauthorized users should not be allowed to access the data
NFR-3	**Reliability**	If there is a sensor fault the message must be informed to the authority
NFR-4	**Performance**	High quality sensor are used to maximize the performance
NFR-5	**Availability**	The Data should be accessible 24/7
NFR-6	**Scalability**	The system must be compact and easily transported
NFR-7	**Efficiency**	It should consume low power and provides highly accurate output