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

Date	03 October 2022
Team ID	PNT2022TMID52665
Project Name	Project – Efficient Water quality analysis & prediction using Machine Learning
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 Form Registration through Gmail Registration through LinkedIN
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Entering required parameters for prediction	With existing user profile they can enter the essential parameters for prediction
FR-4	Performance requirements	Support concurrent users
FR-5	Logical database requirements	The user details stored and encrypted

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	This can be used by everyone with internet accessibility
NFR-2	**Security**	Passwords and user details will be encrypted. The user's IP will be logged
NFR-3	**Reliability**	The overall reliability depends on separate components
NFR-4	**Performance**	The application can support many users at a particular time
NFR-5	**Availability**	The user can access it using a web browser, only restricted by the down time of the server on which the system runs.
NFR-6	**Scalability**	The end-user part is fully scalable and any system using any web browser should be able to use the features of the application.