

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

Date	16 October 2022
Team ID	PNT2022TMID29641
Project Name	EFFICIENT WATER QUALITY ANALYSIS AND 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 Email
FR-2	User Confirmation	Confirmation via Email
FR-3	User Problem	Problem will be solved by developer through Email.
FR-4	Default solution	Appropriate solution to the problem will be displayed on the web page.
FR-5	Reporting	Result of the water quality analysis will be sent a message to the user.

Non-functional Requirements:

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

NFR No.	Non-Functional Requirement	Description
NFR-1	Usability	User can analyse and predict the quality of water.
NFR-2	Security	It is secured as each process is verified through mail.
NFR-3	Reliability	It accurately reports the uncertainty in the prediction.
NFR-4	Performance	Analysing or predicting the quality of water will be easy comparing manual method.
NFR-5	Availability	Analysis can be made at any time through online.
NFR-6	Scalability	User can measure and analyse the quality of water. It provides pollution free and pure water.