

PROJECT DESIGN PHASE – 2

SOLUTION REQUIREMENTS

Date	22 October 2022
Team ID	PNT2022TMID25978
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 Form Registration through Gmail Registration through LinkedIn
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Interface sensor	Interface sensor and Water level sensor produces the detection of clean drinking water
FR-4	Mobile application	The efficient of water quality is analysed, the mobile application is not used .
FR-5	Datasets Accessing	Datasets are collected by data preprocessing Method

FR No. Non-Functional Requirement Description

NFR-1 Usable .	This project is useful for all human being by predicting a purified water
NFR-2 Security	We have designed this project to secure the people from drinking the impure water.

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NFR-3 Performance	This system uses different sensors for monitoring the water quality by determine pH,Turbidity,conductivity and temperature.
NFR-4 Availability	By developing and deploying resilient hardware and software we can analyse the drinking water .
NFR-5 Scalability	This project used to measure and determine the quality of water. This provide pollution
NFR-6 Reliability	This project will help everyone in protecting their health. Accurate water quality prediction is the basis of water environment management and is of great significance for water environment protection.