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

Date	15 October 2022
Team ID	PNT2022TMID28764
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 Gmail
		Create an account
		Follow the instructions
FR-2	User Confirmation	Confirmation via Email
		and it is predicted by water
		level sensor
FR-3	Interface sensor	Interface sensor and Water level sensor produces the
		detection of clean drinking water
FR-4	Accessing datasets	Datasets are collected by data preprocessing method.
FR-5	Mobile application	The efficient of water quality is analyzed, the mobile
		application is not used.

## **Non-functional Requirements:**

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	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 impurity water.
NFR-3	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.
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NFR-4	Performance	This system uses different sensors for monitoring the water quality by determine
		pH,Turbidity,conductivity and temperature. The
		data preprocessing access the dataset. With the use
		of this we predict the quality water.

NFR-5	Availability	By developing and deploying resilient hardware and
		software we can analyze the drinking water.
NFR-6	Scalability	This project used to measure and determine the quality
		of water. This provide pollution free and purified water.