

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

Date	03 October 2022
Team ID	PNT2022TMID51007
Project Name	Efficient Water Quality Analysis and Prediction using Machine Learning
Maximum Marks	4 Marks

Functional Requirements:

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Checking the water quality using water sample	Machine trained by decision tree algorithm to check the water quality.
FR-2	User Seeing the result	Machine Displays the result by evaluating the parameters.

Non-functional Requirements:

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	There is no intelligence needed for the people to use the product.
NFR-2	Security	Access Permission for the machine information only be changed by the system administrator.
NFR-3	Reliability	The database rollback all related updates when any updates fail.
NFR-4	Performance	The Machine must display the result not more than 5 seconds for the user.
NFR-5	Availability	It is readily available to check all water sample.
NFR-6	Scalability	It is scalable to check any water around the globe.