

Project Design Phase-II
Functional Requirements
And
Nonfunctional Requirements

Date	19 October 2022
Team ID	PNT2022TMID19722
Project Name	Project - Real-Time River Water Quality Monitoring and Control System
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 Requirements	River water Protection Monitors PH, Salinity, Turbidity, Conductivity and dissolve solvents and to analyse the quality of river water
FR-2	User Registration	Registration through Form Registration through Gmail Registration through LinkedIn Registration through website
FR-3	User Confirmation	Confirmation via Email Confirmation via OTP Confirmation via call
FR-4	Product Feedback	Through star rating Through Phone calls Through Google forms
FR-5	User Authentication	The credentials is accessible only to the authorized users to access the model.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Easier to apply Even an illiterate consumer ought to use the product without any difficulties.
NFR-2	Security	The model is designed in a secure manner to maintain privacy, and it is protected by two-step authorization. Username and password will be assigned based on the needs of the user.
NFR-3	Reliability	Even if there is a failures the last updated Data's are stored in a Default manner.
NFR-4	Performance	The software should have good user interface. It must have a minimum power requirement. It has to keep water and power.
NFR-5	Availability	The models are created in such a way that they are accessible, usable, and can be modified at any time. Data is available at any time.
NFR-6	Scalability	The product has to cover all the space of water body irrespective of the quantity of river water.