

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

Date	03 October 2022
Team ID	PNT2022TMID29879
Project Name	Real Time River Water Monitoring And Control Systems
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 product mobile UI
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Ph level detection	Ph sensor is used to detect and signals send to Arudino .This sends SMS to mobile UI
FR-4	Turbidity detection	Turbidity sensor is used to detect and signals send to Arudino.This sends SMS via mobile UI
FR-5	Ultrasonic generator	Waves generated at regular interval times to clear algae 25% ,50%, 100%

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Efficient to use and has simple monitoring system.
NFR-2	Security	Mobile application is secured with firewalls protection
NFR-3	Reliability	Real time sensor output values with future predicted data storage.98% efficient monitoring output and 100% clearance of algae production.Assurance for aquaculture safety
NFR-4	Performance	Greater performance and environmental safe model
NFR-5	Availability	In form of mobile UI 24 x 7 monitoring system
NFR-6	Scalability	Highly Scalable.It is capable to produce a best final output.