

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

Date	16 October2022
Team ID	PNT2022TMID50089
Project Name	IoT Based 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 Registration	Registration through e-mail id & Mobile Number
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Web Application	Node service
FR-4	Configure to Device	IBM Watson IoT Platform
FR-5	Database	Cloudant DB
FR-6	Python Script	IBM IoT Platform

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Used to Test the Quality Of Water to Drink
NFR-2	Security	Information About The Water Is Noted
NFR-3	Reliability	More Consistency and Dependability
NFR-4	Performance	Easy to Monitor and & Test the Quality of Water
NFR-5	Availability	Available IN defined Geofence
NFR-6	Scalability	To exceed future Demand