

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

Date	15 October 2022
Team ID	PNT2022TMID30880
Project Name	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 Login	Confirmation through password verification
FR-2	View Water Details	Measured pH, temperature, turbidity values provides the detail about quality of water bodies
FR-3	Logout	Log out the user successfully

**Non-functional Requirements:**

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	Load time for user interface screen shall not be more than 2 seconds.
NFR-2	<b>Security</b>	User account is password protected Account creation done only after email verification
NFR-3	<b>Reliability</b>	Users can access their account 98% of the time without failure
NFR-4	<b>Performance</b>	Load time for user interface screens shall not be more than 2 seconds. Login info verified within 10 seconds.
NFR-5	<b>Availability</b>	Maximum down time will be about 4 hours
NFR-6	<b>Scalability</b>	System can handle about 1000 users at any given time