

**PROJECT DESIGN PHASE-II**  
**SOLUTION REQUIREMENTS**  
**(FUNCTIONAL & NON-FUNCTIONAL)**

Date	9 October 2022
Team ID	PNT2022TMID07710
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.

<b>FR No.</b>	<b>Functional Requirement (Epic)</b>	<b>Sub Requirement (Story / Sub-Task)</b>
FR-1	User Login	Confirmation through verified password
FR-2	View Water Details	View current water details in website View traditional water eligibility in website
FR-3	Logout	Logs out the user successfully

**Non-functional Requirements:**

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

<b>FR No.</b>	<b>Non-Functional Requirement</b>	<b>Description</b>
NFR-1	<b>Usability</b>	Load time for user interface screens 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