

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

Date	03 October 2022
Team ID	PNT2022TMID31597
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 verified password
FR-2	User Authorization levels	Confirmation via Email,Confirmation via OTP
FR-3	Historical Data	The Data are stored in the cloud from the beginning stage till the updation
FR-4	User Authentication	The credentials is accessible only to the authorized users to access the application
FR-5	User Rules and laws	There is some specific guidelines which has to be followed by the users
FR-6	Logout	Logs 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>	The final output should be understandable
NFR-2	<b>Security</b>	The application is designed in a secure manner to maintain privacy of the user.
NFR-3	<b>Reliability</b>	Even if there is any hardware issues the last updated data's are stored in default manner
NFR-4	<b>Performance</b>	High hardware components are used which provide meticulous performance
NFR-5	<b>Availability</b>	The model is designed in such a way that are available,usable and could be modified anytime

NFR-6	<b>Scalability</b>	The system is scaled depending on the size of the water body.
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