

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

Date	03 October 2022
Team ID	PNT2022TMID26697
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	Users Authorization levels	Complete mapping are given in a hierarchical manner in order to show only the specific Data.
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 model
FR-5	Users 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.

<b>FR No.</b>	<b>Non-Functional Requirement</b>	<b>Description</b>
NFR-1	<b>Usability</b>	The Final data should be easily understand able .
NFR-2	<b>Security</b>	The model are designed in a secured manner in order to maintain the privacy
NFR-3	<b>Reliability</b>	Even if there is a firmware issues (failures) the last Updated Data's are stored in a Default manner.
NFR-4	<b>Performance</b>	High quality sensors are used to ease the customers work.
NFR-5	<b>Availability</b>	The model are designed in such a way that are available ,usable and can be modified anytime.
NFR-6	<b>Scalability</b>	The System are Scaled according to the size of the water body (varies)