

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

Date	20 October 2022
Team ID	PNT2022TMI11410
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	Complete mapping are given in a hierarchical in order show the only one the specific data
FR-3	Historical data	Data in stored the cloud from the begin stage until the update
FR-4	User Authentication	The Credentials is accessible only the authorized users access the model
FR-5	User rules	They are some specific guide which has to be followed by the users
FR-6	LogOut	Logout 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 data should be easily understandable
NFR-2	<b>Security</b>	Model are designed in a secured manner in order to maintain the privacy
NFR-3	<b>Performance</b>	High quality sensors are used to easy the customer work
NFR-4	<b>Availability</b>	Model are designed in such a way that are available usable and can be modified anytime
NFR-5	<b>Reliability</b>	Even if there is a firmware issues the last update data are stored in a default manner
NFR-6	<b>Scalability</b>	The system are scales according to the size of the water body