

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

Team ID	PNT2022TMID46688
Project Name	Project – Real Time Water Quality Monitoring And Control System

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	Users Authorization levels	Complete mapping are given in a hierarchical manner in order to show only the specific Data.
FR-2	Historical Data	The Data are stored in the cloud from the beginning Stage till the Update .
FR-3	Users rules and laws	There is some specific guidelines which has to be followed by the users.
FR-4	User Authentication	The credentials is accessible only to the authorized users to access the model.

### 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>Scalability</b>	The System are Scaled according to the size of the water body (varies)
NFR-3	<b>Security</b>	The model are designed in a secured manner in order to maintain the privacy
NFR-4	<b>Availability</b>	The 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 (failures) the last updated Data's are stored in a Default manner.
NFR-6	<b>Performance</b>	High quality sensors are used to ease the customer's work.