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

| Date | 03 October 2022 |
|---|---|
| Team ID | PNT2022TMID52874 |
| Project Name | Project – Real Time 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 | 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 Updation . |
| FR-3 | User Authentication | The credentials is accessible only to the authorized users to access the model. |
| FR-4 | Users rules and laws | There is some specific guidelines which has to be followed by the users. |

**Non-functional Requirements:**

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

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