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

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| Date | 12 November 2022 |
| Team ID | PNT2022TMID07793 |
| 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.

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| **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.

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| **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) |