**Project Design Phase-II**

**Solution Requirements (Functional & Non-functional)**

| Date | 28-10-2022 |
| --- | --- |
| Team ID | PNT2022TMID42603 |
| Project Name | IoT Based Real Time Water Quality and Monitoring and Controlling for Domestic Use |
| Maximum Marks | 4 Marks |

**Functional Requirements:**

| **FR No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| --- | --- | --- |
| FR-1 | User Registration | Registration through Gmail  Registration by phone number |
| FR-2 | User Confirmation | Confirmation via Email  Confirmation through SMS/Messages |
| FR-3 | User Login (Web) | Login with registered mail id and password |
| FR-4 | User Login (mobile app) | Login with registered mobile number and password |
| FR-5 | User’s water quality Information | In the app, enter your water quality details with  date.Then set the time in the app. |

**Non-functional Requirements:**

| **FR No.** | **Non-Functional Requirement** | **Description** |
| --- | --- | --- |
| NFR-1 | **Usability** | The system should be user-friendly for the users. It is used to remaind the water quality level. It alerts the users through app. |
| NFR-2 | **Security** | The login information should not be accessed by anyother users than the respective.  The data of the users should be kept confidential. |
| NFR-3 | **Reliability** | Reminds on correct time  The user data should be updated and examined after certain period of time. |
| NFR-4 | **Performance** | The water quality level will be delivered accurately to the given time.  It works without any connection interruption |
| NFR-5 | **Availability** | The system should be monitored 24X7 for the alert of water quality.  It can be used by any registered users from any place. |
| NFR-6 | **Scalability** | It is easily adaptable  The device is compatible and portable  The application can handle any number of registration. |