Project Design Phase-II

Solution Requirements (Functional & Non-functional)

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| Date | 05 NOVEMBER 2022 |
| Team ID | PNT2022TMID11798 |
| Project Name | 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 | User Registration | Registration through Gmail  Registration by phone number |
| FR-2 | User Confirmation | Confirmation via Email  Confirmation via OTP |
| 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:

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

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| **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 any other 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. |