**Project Design Phase-II**

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

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| Date | 10 October 2022 |
| Team ID | PNT2022TMID26632 |
| Project Name | IOT Based Real-time River 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 Login | Confirmation through verified password |
| FR-2 | View Water Details | View current water details in website  View traditional water eligibility in website |
| FR-3 | Logout | Logs out the user successfully |

**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** | Load time for user interface screens shall not be more than 2 seconds. |
| NFR-2 | **Security** | User account is password protected  Account creation done only after email verification |
| NFR-3 | **Reliability** | Users can access their account 98% of the time without failure |
| NFR-4 | **Performance** | Load time for user interface screens shall not be more than 2 seconds.  Login info verified within 10 seconds. |
| NFR-5 | **Availability** | Maximum down time will be about 4 hours |
| NFR-6 | **Scalability** | System can handle about 1000 users at any given time |