

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

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| Date | 31 October 2022 |
| Team ID | PNT2022TMID43902 |
| Project Name | IOT Based Real-time River Water Quality Monitoring and Control System |

Functional Requirements:

Following are the functional requirements of the proposed solution.

| 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.

| 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 |