

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

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| Date | 4 th November 2022 |
| Team ID | PNT2022TMID10102 |
| 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 | Assurance using a confirmed password |
| FR-2 | View Water Details | On the website, you can view current water information and traditional water eligibility. |
| 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 | The maximum load time for user interface screens is 2 seconds.. |
| NFR-2 | Security | password-protected user account Account creation is only carried out following email confirmation. |
| NFR-3 | Reliability | 98% of the time, users may access their accounts without any issues. |
| NFR-4 | Performance | ser interface screen loads cannot take more than two seconds. Within 10 seconds, login information was validated. |
| NFR-5 | Availability | About 4 hours will be the maximum downtime. |
| NFR-6 | Scalability | The system can manage approximately 1000 users at once. |