**Project Design Phase-II**

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

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| Date | 16 October 2022 |
| Team ID | PNT2022TMID35929 |
| Project Name | 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 Registration | Sign up for new registration |
| FR-2 | User confirmation | Confirmation via OTP for registered Email and mobile number |
| FR-3 | User login | Once user confirmation is done, login using the user credentials |
| FR-4 | View water details | View the quality parameter measures of various river water resources in the website |
| FR-5 | Logout | User can logout from the website |

**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** | Server run time restrictions shall be avoided.  Load time of the server shall not be more than 3 seconds. |
| NFR-2 | **Security** | User confirmation is done via OTP for registered Email and mobile number.  Individual user account is password protected |
| NFR-3 | **Reliability** | User can access the information at any time through their account |
| NFR-4 | **Performance** | Login time will be less than 5 seconds |
| NFR-5 | **Availability** | Down time for the website will be about 2 hours |
| NFR-6 | **Scalability** | Server can handle many number of users at any instant without any issues |