**Project Design Phase-II**

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

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| Date | 2 NOVEMBER 2022 |
| Team ID | PTN2022TMID31045 |
| 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 To track the River Water Quality | Fill the form with your gmail login or through mobile app to register yourself |
| FR-2 | User Confirmation | Confirmation through OTP  Confirmation through the password verification |
| FR-3 | User Sign-UP | Type a strong password to log in.password should have more than 8 characters. |
| FR-4 | View Water Details | View water details from website  View water strategy details in website show in percentage to understand easy as well as faster notification from regular interval of time to monitor the water from the website |
| FR-5 | Sign out | Log 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** | User interface page takes not more than two seconds.It is a user friendly Monitoring |
| NFR-2 | **Security** | User account is password protected  Account creation done only after email verification |
| NFR-3 | **Reliability** | User can access thier account 97..6% of time without failure |
| NFR-4 | **Performance** | Lpoad time for user screen shall not be more than 2 seconds  Login information verified within 10 seconds |
| NFR-5 | **Availability** | It can be accessible from any locations |
| NFR-6 | **Scalability** | The system can support more users concurrently . |