**Project Design phase – II**

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

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| Date | 04 October 2022 |
| Project Name | PNT2022TMID41957 |
| 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/subTask)** |
| FR 1 | Historical Data | The data are stored in the cloud form the Beginning stage till the Updating. |
| FR 2 | User Authorization level | Complete map are given in a hierarchical manner in order to show only the specific data. |
| FR 3 | User Authentication | The credentials is accessible only to the Authorized user to access the model. |
| FR 4 | User rules and Law | There is some specified guidelines which as to be followed by the users. |

**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 | The Final model data should be easily understandable. |
| NFR 2 | Security | The models are designed in a secured manner in order to maintain the privacy. |
| NFR 3 | Reliability | Even if there is a firmware issues the last updated Data’s are stored in a Default manner. |
| NFR 4 | Performance | High quality sensors are used to case the customer’s work. |
| NFR 5 | Availability | The models are designed in such a way that are available, usable and can be modified anytime. |
| NFR 6 | Scalability | The system are scaled according to the size of the water body (varies). |