

Project Design phase – II

Solution Requirements (Functional & Non Functional)

Date	03 October 2022
Project Name	PNT2022TMID38427
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.

FR No.	Functional requirement(Epic)	Sub requirement(story/sub-Task)
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.

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 ease 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).