

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

Date	26 October 2022
Team ID	PNT2022TMID48851
Project Name	Project - Real-Time River Water Monitoring and Control Systems
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	Collect data set	The sensors to collect data about turbidity,temperature,pH,conductivity,etc..
FR-2	Data server in cloud	Iot devices have capability to stream the array of collected data
FR-3	Access the data	Access volume and velocity of data is increasing
FR-4	Using data aggregator	Analysis the result and transfer the result.
FR-5	Display	Produce on smartphones and desktop in the cloud

**Non-functional Requirements:**

Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	Easy to Handle.
NFR-2	<b>Security</b>	Produces output send SMS to authorized person
NFR-3	<b>Reliability</b>	Water quality detected does not match necessary actions can be taken
NFR-4	<b>Performance</b>	Measured data sent to central server through transceivers

NFR-5	<b>Availability</b>	Nowadays Deaf Mute Communication Interpreter, Under Wearable communication method, there are Glove based system, Keypad method and Handicom Touchscreen.
NFR-6	<b>Scalability</b>	Easy to use. Can be able to respond quickly. Able to produce absolute translation. Should consume less data. Requirement of internet speed.