

## PROJECT DESIGN PHASE II SOLUTION ARCHITECTURE

Team ID : PNT2022TMID07790

Project Name Project : Real Time River Water Monitoring  
and Control system

<b>Solution Requirements (Functional &amp; Non-functional) Date</b>	14 October 2022
Team ID	PNT2022TMID07790
Project Name	Project - lot Based Real Time River Water Quality Monitoring and Control System
Maximum Marks	4 Marks

### Functional Requirements:

Following are the functional requirements of the proposed solution. <b>FR No.</b>	<b>Functional Requirement (Epic)</b>	<b>Sub Requirement (Story / Sub-Task)</b>
FR-1	<b>User Requirements</b>	River Water Protection pH,Turbitidy ,Humidity and Temperature
FR-2	<b>User Registration</b>	Manual Registration Registration through webpage Registration through Form Registration through Gmail
FR-3	<b>User Confirmation</b>	Confirmation Via Email Confirmation Via OTP Confirmation Via Phone
FR-4	<b>Payment Options</b>	Cash on Delivery Net Banking/UPI Credit/Debit/ATM Card
FR-5	<b>Product Delivery and Installation</b>	Door Step delivery Free Installation
FR-6	<b>Product Feedback</b>	Through GoogleForms Through Phone calls Through Webpage

### Non-functional Requirements:

Following are the non-functional requirements of the proposed solution. <b>FR No.</b>	<b>Non-Functional Requirement</b>	<b>Description</b>
NFR-1	<b>Usability</b>	Have a clear and self-explanatory manual. Easier to use Even an illiterate farmer have to use the product without any difficulties
NFR-2	<b>Security</b>	Application has to be secured with 2 step authorisation Passwords and passkeys will be assigned as per the users need.
NFR-3	<b>Reliability</b>	Hardware requires a regular checking and service Software may be updated periodically Immediate alert is provided in case of any system failure
NFR-4	<b>Performance</b>	The application must have a good user interface It should have a minimal energy requirement It has to save water and energy
NFR-5	<b>Availability</b>	All the features will be available when the user requires. It depends on the need of the farmer and the customization the user has done.
NFR-6	<b>Scalability</b>	The product has to cover all the space of land irrespective of the size or area of a farm field.