PROJECT DESIGN PHASE II SOLUTION ARCHITECTURE

Team ID: PNT2022TMID07790

Project Name Project: Real Time River Water Monitoring

and Control system

Solution Requirements (Functional & Non- 14 October 2022

functional) Date

Functional Requirements:

Team ID PNT2022TMID07790

Project Name Project - lot Based Real Time River Water Quality

Monitoring and Control System

Maximum Marks 4 Marks

Following are the functional requirement (Epic) Sub Requirement (Story / Sub-Task)
solution. FR No.

FR-1 **User Requirements** River Water Protection pH,Turbitidy ,Humidity and

Temperature

FR-2 **User Registration** Manual Registration

Registration through webpage Registration through Form Registration through Gmail

FR-3 **User Confirmation** Confirmation Via Email

Confirmation Via OTP
Confirmation Via Phone

FR-4 Payment Options Cash on Delivery

Net Banking/UPI

Credit/Debit/ATM Card

FR-5 **Product Delivery and** Door Step delivery

Installation Free Installation

FR-6 **Product Feedback** Through GoogleForms

Through Phone calls Through Webpage

Non-functional Requirements:

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