PROJECT DESIGN PHASE - II

SOLUTION REQUIREMENTS (FUNCTIONAL AND NON-FUNCTIONAL)

DATE	14 OCTOBER 2022
TEAM ID	PNT2022TMID13544
PROJECT NAME	REAL TIME RIVER WATER QUALITY MONITORING AND CONTROL SYSTEM
MAXIMUM MARKS	4 Marks

Functional Requirements:

S.NO	FUNCTIONAL REQUIREMENT	SUB-REQUIREMENTS
1	User requirements	❖ River Water Protection ❖ PH ❖ Humidity ❖ Temperature.
2	User Registration	❖ Manual Registration ❖ Registration through Form ❖ Registration through webpage ❖ Registration through Gmail
3	User Confirmation	❖ Confirmation via mail ❖ Confirmation via OTP ❖ Confirmation via Phone
4	Payment Option	❖ Banking/UPI ❖ Credit/Debit/ATM Card
5	Result	❖ Result through mobile application ❖ Result through mail ❖ Result through webpage

Non-Functional Requirements:

S.NO	NON-FUNCTIONAL REQUIRMENTS	DESCRIPTION
1	Usability	❖ Have a clear and Self-explanatory manual. ❖ Easier to use. ❖ Even an illiterate farmer have to use the product without any difficulties.
2	Security	❖ Application has to be secured with 2 step authorisation. ❖ Password and passkey will be assigned as per the user need.
3	Reliability	❖ Hardware requires a regular checking and service. ❖ Software may be updated periodically ❖ Immediate alert is provided in case of any system failure.
4	Availability	❖ All the features will be available when the user requires. ❖ It depends on the need of the user.
5	Performance	❖ This application must have a good user interface. ❖ It should have a minimal energy requirements. ❖ It has to save water and energy
6	Scalability	❖ The product has to cover all the places.