

Ideation Phase

Defining the problem statements

Date	12 Oct 2022
Team ID	PNT2022TMID03762
Project Name	Real-Time River Water Quality Monitoring and Control System
Maximum marks	2 marks

Problem Statements (PS)	I am	I am trying to	But	Because	Which makes me feel
PS1	I am a health minister	I want to make sure that the residents are provided good quality water supply.	I am unable to evaluate the water quality in large volume and in an optimized manner.	If the river water quality is evaluated in large volume, it ensures maximum accuracy and easy assessment.	That a proper and enhanced system to evaluate the water quality would make me propose appropriate solutions to improve the quality.
PS2	I am a farmer	I want to ensure that the water I use for irrigation is up to the mark.	I am unable to assess the quality of water in an economical way.	If I could know the quality of water that I use for my crops, I can provide supplementary nutrients that are required.	An economical system to measure the water quality would make my crops healthier.
PS3	I am an environmentalist	I want to know the quality of water in my locality.	I am unable to identify the water quality and thus devise strategies for pollution control.	If I could know the river water quality, I can come up with remedies to reduce water pollution.	I will need an enhanced and quick water quality assessment system to develop pollution control strategies.