

Ideation Phase

Define the Problem Statements

Date	16 October 2022
Team ID	PNT2022TMID27380
Project Name	Project - Real-Time River Water Quality Monitoring and Control System
Maximum Marks	2 Marks

Customer Problem Statement Template:

I am	I'm trying to	But	Because	Which makes me feel
As a Farmer, I struggle with the problems caused by the river that served as my source of water.	I'm attempting to reduce my water filtration process by getting clean and quality river water for my farm.	However, I'm unable to find a suitable alternative to manual labour.	Because the filtration procedure is more time-consuming with poor water quality, we are unable to produce the best quality of food crop.	It is one of the obstacles to the success of my farm and makes me responsible for customer's happiness.

Reference: <https://miro.com/templates/customer-problem-statement/>

Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	As a Farmer, I struggle with the problems caused by the river that served as my source of water.	I'm attempting to reduce my water filtration process by getting clean and quality river water for my farm.	However, I'm unable to find a suitable alternative to manual labour.	Because the filtration procedure is more time-consuming with poor water quality, we are unable to produce the best quality of food crop.	It is one of the obstacles to the success of my farm and makes me responsible for customer's happiness.
PS-2	I'm a Water Quality Specialist.	In order to do my research for my current thesis on river water management and its effects on ecosystems, I must evaluate the river's water quality.	But each time I require information about river water quality for analysis, I have to do it by hand, since I haven't discovered a good replacement to the manual way.	Because, I can't do my task on time since evaluating the river water quality takes additional time.	It gives me the impression that, in order to finish my thesis quickly, I need an automated river water management and control system that will allow me to use the data it generates for my research.