

## Ideation Phase

### Define the Problem Statements

Date	06 – 10 – 2022
Team ID	PNT2022TMID12618
Project Name	Efficient Water Quality Analysis and Prediction using Machine Learning
Maximum Marks	2 Marks

#### Customer Problem Statement Template:

Create a problem statement to understand your customer's point of view. The Customer Problem Statement template helps you focus on what matters to create experiences people will love.

A well-articulated customer problem statement allows you and your team to find the ideal solution for the challenges your customers face. Throughout the process, you'll also be able to empathize with your customers, which helps you better understand how they perceive your product or service.

<b>I am</b>	<small>Describe customer with 3-4 key characteristics - who are they?</small>	Describe the customer and their attributes here
<b>I'm trying to</b>	<small>List their outcome or "job" the care about - what are they trying to achieve?</small>	List the thing they are trying to achieve here
<b>but</b>	<small>Describe what problems or barriers stand in the way – what bothers them most?</small>	Describe the problems or barriers that get in the way here
<b>because</b>	<small>Enter the "root cause" of why the problem or barrier exists – what needs to be solved?</small>	Describe the reason the problems or barriers exist
<b>which makes me feel</b>	<small>Describe the emotions from the customer's point of view – how does it impact them emotionally?</small>	Describe the emotions the result from experiencing the problems or barriers

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

<b>Problem Statement (PS)</b>	<b>I am (Customer)</b>	<b>I'm trying to</b>	<b>But</b>	<b>Because</b>	<b>Which makes me feel</b>
PS – 1	Sanitization companies	Need a good quality measure to use upon their products	Unaware of how to measure the water quality	I can not find an apt metric to rely on	Twitchy
PS – 2	Farmers	Water my field with a good quality possible	Unaware of where to find it	Mostly available water is contaminated	Edgy
PS – 3	Diseased people	Find good quality water	Unaware of where to find it	Mostly available water is contaminated	Restless
PS – 4	Lab technicians	Need a qualitative model to satisfy the sanitization company needs	Unaware of water quality index model	Many models don't provide a best metric to measure the quality	Flurried
PS – 5	People who wish to lead a healthy life	Find good quality water	Unaware of where to find it	Mostly available water is contaminated	Concerned

## Visualization:

