

## Ideation Phase

### Define the Problem Statements

Date	29 April 2023
Team ID	NM2023TMID06580
Project Name	Assessing the safety of Municipal Drinking Water
Maximum Marks	2 Marks

#### Customer Problem Statement Template:

The problem is that there can be harmful contaminants in municipal drinking water, which can cause health problems. This can happen due to various sources such as aging infrastructure and human activities. To ensure the safety of drinking water, we need to regularly test and monitor the water quality to detect any potential contaminants and take necessary actions to mitigate the risks. The solution involves identifying sources of contamination, developing effective testing and monitoring protocols, implementing mitigation strategies, and communicating the risks and findings to the public.

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

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	Citizen	Assess the safety of Municipal drinking water	Not all contaminants can be easily detected and new contaminants may emerge over time and it is difficult to assess.	There is no particular technology for detecting the contaminants in the water and identify the percentage of contaminants	To think about it and develop this algorithm
PS-2	Citizen	Developing the algorithm for assessing the safety of Municipal Drinking water using machine learning	Arranging the algorithm developed for assessing the safety of Municipal Drinking water	This algorithm detects the contaminants in the drinking water	To develop this algorithm