

Ideation Phase

Define the Problem Statements

Date	06 May 2023
Team ID	NM2023TMID17415
Project Name	A Reliable Energy Consumption Analysis System for Energy-Efficient Appliances
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.

I am	Describe customer with 3-4 key characteristics - <i>who are they?</i>	Describe the customer and their attributes here
I'm trying to	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
but	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
because	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
which makes me feel	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	a homeowner who is environmentally conscious and wants to reduce my energy consumption and electricity bills while maintaining a comfortable living environment.	monitor and manage my household energy usage effectively with energy-efficient appliances.	I face the challenge of not having an accurate and dependable system to track and analyze my energy consumption.	the current systems available are not designed to work with energy-efficient appliances and lack the necessary features and functionalities to provide reliable energy consumption analysis	frustrated and unable to make informed decisions about my energy consumption, leading to a sense of helplessness and wasted efforts in trying to reduce my carbon footprint.
PS-2	a small business owner who operates a manufacturing plant with multiple energy-intensive machines and equipment.	reduce my energy consumption and associated costs while maintaining optimal production levels	I face the challenge of not having a reliable energy consumption analysis system that accurately measures the energy usage of each machine and provides meaningful insights to optimize energy usage.	the current systems available do not account for the unique energy requirements of each machine, and lack the necessary features and functionalities to provide accurate and real-time energy consumption analysis.	overwhelmed and unable to make informed decisions about my energy usage, leading to higher electricity bills and reduced profits, as well as a sense of frustration and helplessness in addressing my environmental impact.