

## Ideation Phase

### Define the Problem Statements

Date	31 January 2025
Team ID	LTVIP2026TMIDS87694
Project Name	EV Battery Performance and Range Monitoring System
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 - who are they?	Describe the customer and their attributes here
I'm trying to	List their outcome or "job" the care about - what are they trying to achieve?	List the thing they are trying to achieve here
but	Describe what problems or barriers stand in the way - what bothers them most?	Describe the problems or barriers that get in the way here
because	Enter the "root cause" of why the problem or barrier exists - what needs to be solved?	Describe the reason the problems or barriers exist
which makes me feel	Describe the emotions from the customer's point of view - how does it impact them emotionally?	Describe the emotions the result from experiencing the problems or barriers

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

#### Example:



Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
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PS-1	I am an electric vehicle owner	I'm trying to estimate how far I can travel after charging	But I cannot clearly understand my vehicle's range performance	Because the charging and battery data are complex and not visualized properly	Confused and uncertain about trip planning
PS-2	I am a fleet manager	I'm trying to monitor and compare battery performance of multiple EVs	But it is difficult to analyse data manually	Because there is no interactive dashboard to track charging patterns	Stressed and inefficient in making decisions