

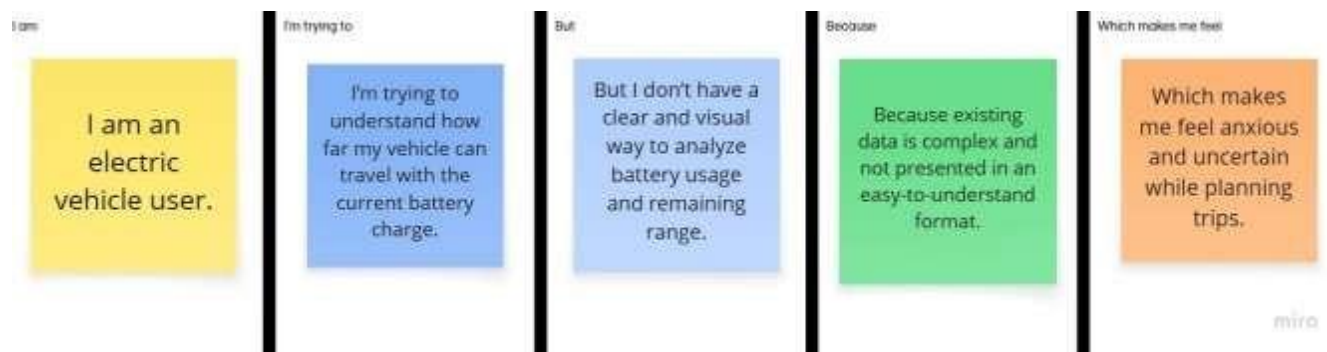
Project Initialization and Planning Phase

Date	28 January 2026
Team ID	LTVIP2026TMIDS47205
Project Name	Visualization Tool for Electric Vehicle Charge and Range Analysis
Maximum Marks	3 Marks

Define Problem Statements (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 your customers' challenges. 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 the customer with 3-4 key characteristics: who are they?	Describe the customer and their attributes here
I'm trying to	List what customer is "up to" (the user story - what are they trying to achieve?)	List the thing they are trying to achieve here
but	Describe what obstacles or barriers stand in the way - what do they stand in the way of?	Describe the problems or barriers that get in the way here
because	Enter the "root cause" of why the problems or barriers exist - what needs to be solved?	Describe the reason the problems or barriers exist
which makes me feel	Describe the emotions the customer's pain of what - how does it impact them emotionally?	Describe the emotions the result from experiencing the problems or barriers



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 user.	I'm trying to understand how far my vehicle can travel with the current battery charge.	But I don't have a clear and visual way to analyze battery usage and remaining range.	Because existing data is complex and not presented in an easy-to-understand format.	Which makes me feel anxious and uncertain while planning trips.
PS-2	I am a fleet manager / EV analyst.	I'm trying to monitor charging patterns and range efficiency of electric vehicles.	But I lack an interactive visualization tool to compare charge levels, distance covered, and efficiency.	Because raw datasets and tables do not provide meaningful insights quickly.	Which makes me feel frustrated and inefficient in decisionmaking.