

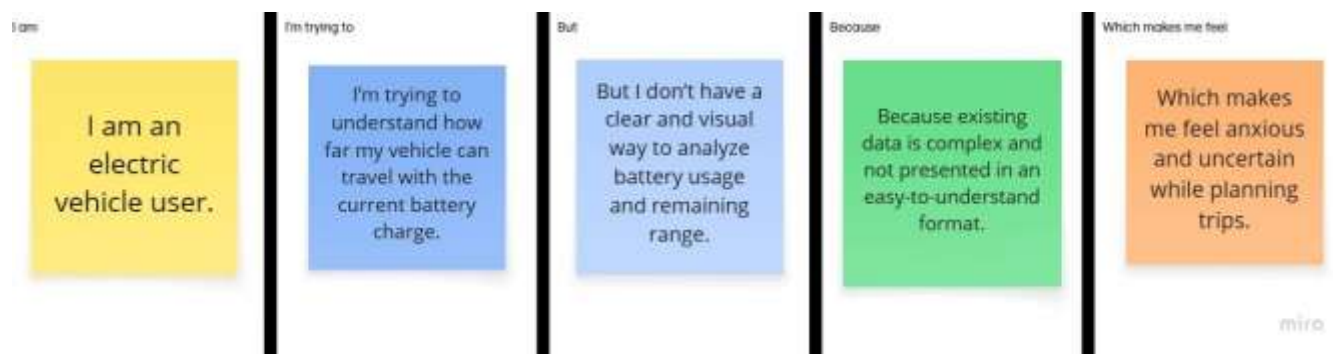
Project Initialization and Planning Phase

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|---------------|---|
| Date | 28 January 2026 |
| Team ID | LTVIP2026TMIDS87959 |
| 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 customer with 3-4 key characteristics who are they? | Describe the customer and their attributes here |
| I'm trying to | List what customer is "lost" the user story - 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 do they need? | 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 point of view - 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 |
|------------------------|-----------------|---------------|-----|---------|---------------------|
|------------------------|-----------------|---------------|-----|---------|---------------------|

| | | | | | |
|------|------------------------------------|---|--|---|---|
| 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. |