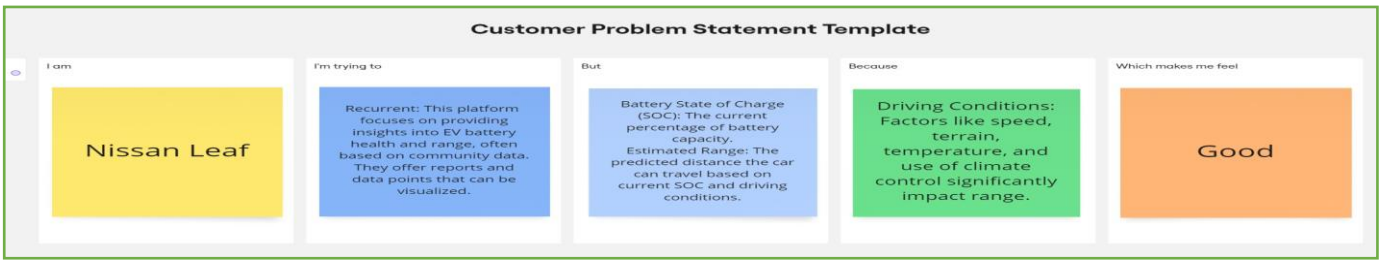
Project Initialization and Planning Phase

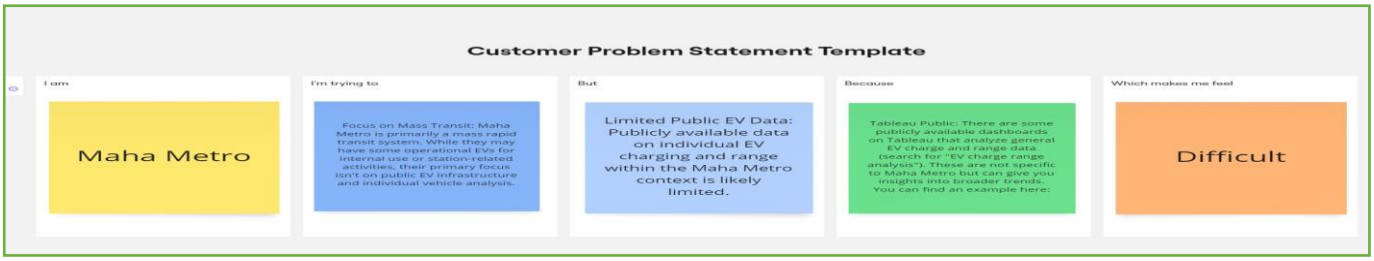
Date	15 March 2025
Team ID	LTVIP2025TMID26729
Project Name	Visualization Tool For Electric Vehicle Charge And Range Analysis In Tableau
Maximum Marks	3 Marks

Define Problem Statements (Customer Problem Statement Template):

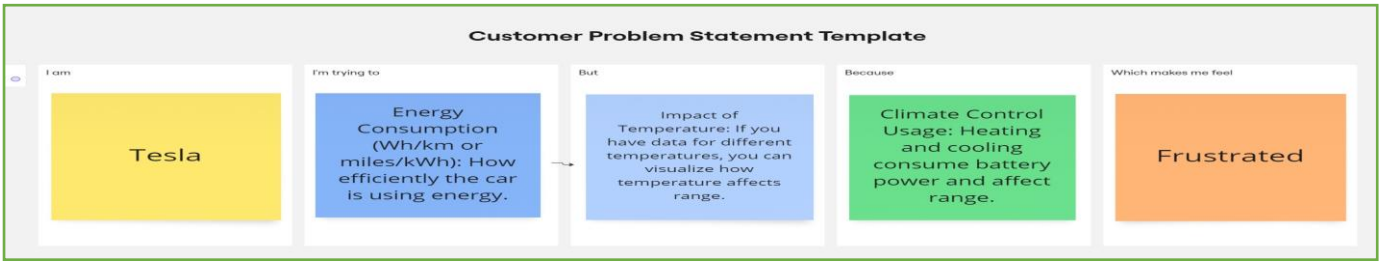
Problem statement-1:



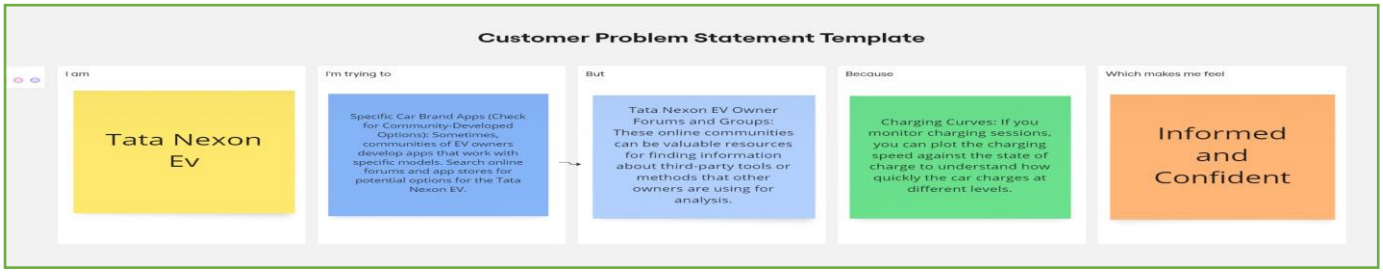
Problem statement-2:



Problem statement-3:



Problem Statement-4:



Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	**Nissan Leaf**	Recurrent: This platform focuses on providing insights into EV battery health and range, often based on community data They offer reports and data points that can be visualized.	Battery State of Charge (SOC): The current percentage of battery capacity. Estimated Range: The predicted distance the car can travel based on current SOC and driving conditions.	Driving Conditions: Factors like speed, terrain, temperature, and use of climate control significantly impact range	Good
PS-2	**Maha Metro**	Focus on Mass Transit: Maha Metro is primarily a mass rapid transit system. While they may have some operational EVs for internal use or station related activities, their primary focus isn't on public EV infrastructure and individual vehicle analysis.	Limited Public EV Data: Publicly available data on individual EV charging and range within the Maha Metro context is likely limited	Tableau Public: There are some publicly available dashboards on Tableau that analyse general EV charge and range data (search for "EV charge range analysis"). These are not specific to Maha Metro but can give you insights into broader trends You can find an example here:	Difficult
PS-3	**Tesla**	Energy Consumption (Who/km or miles/kWh): How efficiently the car is using energy	Impact of Temperature: If you have data for different t temperatures, you can visualize how temperature affects range	Climate Control Usage: Heating and cooling consume battery power and affect range.	Frustrated
PS-4	**Tata Nexon EV**	Specific Car Brand Apps Sometimes, communities of EV owners develop apps that work with specific models. Search online forums and app stores for potential options for the Tata Nexon EV.	Tata Nexon EV Owner Forums and Groups: These online communities can be valuable resources for finding information about third-party tools or methods that other owners are using for analysis.	Charging Curves: If you monitor charging sessions you can plot the charging speed against the state of charge to understand how quickly the car charges at different levels.	Informed And Confident