Project Design Phase Problem – Solution Fit Template

Date	25 June 2025		
Team ID	LTVIP2025TMID51636		
Project Name	Visualizing Electric Vehicle Trends: An Analysis		
	of Range, Brands, and Powertrain Features		
	Using Tableau		
Maximum Marks	2 Marks		

Problem:

Electric vehicle (EV) users, policymakers, and potential buyers often struggle to:

- Understand EV performance metrics (like range, speed, and efficiency) across brands and models.
- Identify charging infrastructure gaps across regions.
- Compare cost-efficiency and charging type availability to make informed decisions.
- Lack a consolidated visual overview of EV adoption, model availability, and regional trends in India and globally.

Purpose:

The **DriveSmart EV Charge & Range Analysis** project solves this by:

- Visually analyzing EV datasets from multiple sources using Tableau dashboards.
- Presenting **easy-to-understand visualizations** for top EV brands, charging station types, vehicle range, and speed comparisons.
- Helping users identify **the most effective EV brands** and their suitability for Indian regions.
- Supporting policymakers and EV adopters in **making data-driven decisions** to expand infrastructure and select models.

Template:

1 CUSTOMER SEGMENT(\$)	5 CUSTOMER CONSTRAINTS	AS	5 AVAILABLE SO	LUTIONS
 EV buyers & potential users in India Policymakers and transport authorifies Environnenental researchers & analysts Make informmend decisions on EV purchase or infrastructure eden 	 Company-specific EV specs on websites Basic PDF reports by government/iV specs Static dashboards or Excel data (cons 		 Limited time to research Lack of technical backgrouvnd to interpret raw data Need for clear, visual insights instead of text-hevvy 	
2 JOBS-TO-BE-DONE/PROBLEM	9 PROBLEM ROOT CAUSE	9 PR	OBLEM ROOT CAU.	7 BEHAVIOUP
 Compare EV models for speed, range, and cost-efficiency Identify available charging stations by type and regon Understand brand-wise EV efficiency or infrastructure expans 	 EV data is scattered and not centralized Lack of visual decision tools 	Visualizationstorboard dashboards • Visualize EV models, range, efficiency, price websites		Tableau Public dashboards EV brand websites Review blogs
3 TRIGGERS: BEFORE/AFTER	E EMOFIONS: BEFORE/AFER			
Confused:	After: Consident in reading	10. YO	UR SOLUTION	
Seeing nedar/s skeptical Confident in data-backed paic ision	data-backed decision-making Confident in		eractive Tableau Public St	-
Emotions: BEFORE	After: Confidident	LVI Visualize EV illouels, range, efficiency, price		
Confident in data-backed decision-m	Data-backed decisionn-making			