

Project Design Phase
Proposed Solution Template

Date	15 June 2025
Team ID	LTVIP2025TMID48957
Project Name	Visualization Tool for Electric Vehicle Charge and Range Analysis
Maximum Marks	2 Marks

Proposed Solution

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	EV users, buyers, and researchers lack a centralized, user-friendly, and visual platform to compare EV models, assess range, and locate charging infrastructure effectively.
2.	Idea / Solution description	The solution is a web-based dashboard that integrates Tableau visualizations to present interactive EV data, including charging station locations, EV brand comparisons, model counts, and efficiency rankings.
3.	Novelty / Uniqueness	Combines open datasets with powerful Tableau visuals embedded in a custom web application. Unlike static websites or blogs, this provides dynamic filtering and intuitive visual comparisons in one platform.
4.	Social Impact / Customer Satisfaction	Increases EV adoption confidence by helping users make informed decisions. Promotes environmental awareness, simplifies planning for EV travel, and supports smart urban mobility decisions.
5.	Business Model (Revenue Model)	Potential monetization through ad placements, premium analytics for enterprises, affiliate marketing with EV manufacturers, and API access to government/third-party mobility planners.
6.	Scalability of the Solution	Highly scalable by integrating new datasets (e.g., real-time charging availability, vehicle telematics) and expanding to cover global EV markets. Built with open tools, enabling easy feature extension.