

**Project Design Phase
Proposed Solution Template**

Date	2 FEB 2026
Team ID	LTVIP2026TMIDS24926
Project Name	Visualization Tool For Electric Vehicle Charge And Range Analysis
Maximum Marks	2 Marks

Proposed Solution Template:

Project team shall fill the following information in the proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	EV users often face “range anxiety” due to a lack of real-time information on battery levels, charging station availability, and route-based charging predictions.
2.	Idea / Solution description	A visualization platform using dashboards and maps that displays live EV range estimates, charging station status, power levels, and route suggestions.
3.	Novelty / Uniqueness	Integrates real-time analytics, predictive range mapping, and station occupancy tracking into a single user-friendly dashboard, optimized for mobile and desktop.
4.	Social Impact / Customer Satisfaction	Reduces stress for EV drivers, promotes ecofriendly transport, and enhances adoption of EVs by increasing user trust in charging infrastructure.
5.	Business Model (Revenue Model)	Freemium dashboard for users; premium model for EV manufacturers, fleet operators, or governments; revenue from data analytics services and API licensing.
6.	Scalability of the Solution	Can be scaled across cities and countries by integrating open EV infrastructure APIs; adaptable for public transport, logistics, and private users globally.