

Project Design Phase
Proposed Solution Template

Date	1 June 2025
Team ID	LTVIP2025TMID48098
Project Name	Visualization Tool for EV 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
	Problem Statement (Problem to be solved)	EV users lack clear, real-time visibility into charging patterns, range predictions, and optimal usage routes based on charge data.
	Idea / Solution description	A web-based visualization tool that processes EV data to display charge levels, consumption trends, and estimated range using interactive dashboards.
	Novelty / Uniqueness	Combines real-time charge analytics with predictive range estimation and route insights tailored to different EV models and driving behaviors.
	Social Impact / Customer Satisfaction	Enhances user confidence in EVs, reduces range anxiety, and promotes smarter, energy-efficient travel decisions.
	Business Model (Revenue Model)	Freemium model for users, with premium features for OEMs, fleet operators, and integration partners via licensing or subscription.
	Scalability of the Solution	Highly scalable to accommodate various EV brands, geographies, and fleet sizes through cloud-based data integration and modular analytics.