



Project Design Phase
Problem – Solution Fit Template

Date	15 February 2025
Team ID	LTVIP2025TMID50516
Project Name	Visualization Tool for Electric Vehicle Charge and Range Analysis
Maximum Marks	2 Marks

Problem – Solution Fit Template:





Problem & Solution CHART

● Problem

Electric vehicle (EV) users often face range anxiety and uncertainty during travel because they lack access to detailed, visual insights into battery performance, energy consumption, and driving range. Current EV dashboards offer only basic charge information without interactive analytics or predictive tools, which limits users' ability to plan efficient trips.

● Solution

We propose a data-driven visualization tool that provides EV users with interactive dashboards displaying battery charge trends, energy usage patterns, and dynamic range predictions. This solution enables users to make informed driving decisions, reduce range anxiety, and improve energy efficiency through simple, intuitive visual feedback.