

## Project Design Phase-II

### Solution Requirements (Functional & Non-functional)

Date	31 January 2025
Team ID	LTVIP2025TMID47299
Project Name	Visualization Tool for electric vehicle Charge and range analysis
Maximum Marks	4 Marks

#### Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Form Registration through Gmail Registration through LinkedIn
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Data upload	Upload Electric Cars Data (CSV/XLSX) Validate Data Format
FR-4	Data Visualization	Generate Charts (Sales, Range, Battery, etc.) Filter by Manufacturer/Year/Price Display Map for Regional Sales
FR-5	Dashboard Management	Create/Save Dashboards Export Dashboard as PDF/Image
FR-6	User Interaction	Filter Data Interactively Tooltip on Hover for Chart Details

#### Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Easy-to-use interface for uploading data and building dashboards
NFR-2	Security	Secure login and restricted access to analytics
NFR-3	Reliability	Consistent performance under load
NFR-4	Performance	Fast loading of dashboards and visualizations
NFR-5	Availability	System should be available 24/7
NFR-6	Scalability	Support large datasets (100k+ records)

