Requirement Analysis

Date	25 June 2025
Team ID	LTVIP2025TMID20808
Project Name	Visualization tool for electric charge and range analysis
Maximum Marks	4 Marks

1. Functional Requirements

FR No.	Functionality	Description
FR-1	Data Upload	Upload EV charge and range dataset (CSV)
FR-2	Dashboard Visualizations	Visualize charging station usage and vehicle range
FR-3	Filtering & Search	Filter by vehicle type, region, charger type, and duration
FR-4	Interactive Story	Walkthrough showing charging trends and infrastructure needs
FR-5	Export Options	Export dashboard/story as image or PDF

2. Non-Functional Requirements

NFR No.	Requirement	Description
NFR-1	Usability	Clean and responsive dashboard for all user types
NFR-2	Performance	Load within 3–4 seconds even with 10,000+ rows
NFR-3	Scalability	Support adding more EV data or new filter types
NFR-4	Reliability	System must not crash on filtering or switching story pages
NFR-5	Security (Basic)	Store dataset safely with access control to Tableau Public