Requirement Analysis
Solution Requirement

Date	3 July 2025
Team ID	LTVIP2025TMID49372
Project Name	Visualization Tool for Electric Vehicle 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