Solution Requirements:

Solution Requirements (Functional & Non-functional)

Date: 25th Feb 2026

Team ID: LTVIP2026TMIDS63931

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	Data Collection	Collect and preprocess data from multiple EV-related CSV files
FR-2	Data Integration	Import cleaned datasets into Tableau, create relationships
FR-3	Dashboard Visualizations	Create charts, maps, KPIs, and filters for EV metrics
FR-4	Story Creation	Develop storyboards highlighting trends and user flows
FR-5	User Interactivity	Implement filters for range, brand, price, efficiency
FR-6	Web Integration	Publish to Tableau Public and embed in an HTML/CSSbased web page
FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)

Non-functional Requirements

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

NFR No.	Non-Functional Requirement	Description
NFR-1	Usability	Clean, filterable, and visually appealing dashboard using Tableau
NFR-2	Accessibility	Dashboard accessible via Tableau Public and embeddable on any website
NFR-3	Performance	Fast-loading dashboards and efficient use of Tableau filters and charts
NFR-4	Reliability	Accurate insights derived from consistently structured data
NFR-5	Scalability	Ability to extend dashboard with new datasets or dimensions
NFR-6	Maintainability	Easy updates via spreadsheet/CSV edits without rebuilding the dashboard