

SOLUTION REQUIREMENTS

Date	21 February 2026
Team ID	LTVIP2026TMIDS80482
Project Name	Visualization Tool for Electric Vehicle Charge and Range Analysis
Maximum Marks	4 Marks

Functional Requirements

FR	Functional Requirement	Sub Requirement (Story / Sub-Task)
No.	(Epic)	
FR-1	Import EV dataset (CSV/Excel)	Connect data source Data Collection to Tableau
FR-2	Clean missing values Data Preprocessing unwanted columns	Change data types Remove
FR-3	Apply calculations (SUM, AVG, COUNT)	Create Data Analysis calculated fields
FR-4	Create charts (Bar, Line, Pie, Area)	Design Data Visualization dashboards
FR-5	Apply filters (Brand, Price, Range)	Enable user Filter & Interaction interaction
FR-6	Combine multiple sheets	Design interactive Dashboard Development dashboard layout
FR-7	Create story points	Show step-by-step insights Story Creation
FR-8	Analyze trends and patterns	Provide meaningful Insights Generation insights
FR-9	Allow users to view dashboard	Interact with filters User Access
FR-10	Publish dashboard	Share via link or Tableau Public Report Sharing

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Non-Functional Requirements NFR Non-Functional No. Requirement	Description
NFR-1 Usability	The dashboard should be easy to understand and user-friendly with clear visuals
NFR-2 Security	Data should be securely handled and shared through authorized platforms
NFR-3 Reliability	The system should provide accurate and consistent results
NFR-4 Performance	Dashboard should load quickly and respond to filters without delay
NFR-5 Availability	The dashboard should be accessible anytime via Tableau Public or web
NFR-6 Scalability	The system should handle larger datasets in the future
NFR-7 Maintainability	Easy to update data and modify dashboards
NFR-8 Compatibility	Should work across devices (laptop, mobile, browser)