

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 Data Preprocessing Clean missing valuesChange data typesRemove
unwanted columns

FR-3 Data Analysis Apply calculations (SUM, AVG, COUNT)Create
calculated fields

FR-4 Data Visualization Create charts (Bar, Line, Pie, Area)Design
dashboards

FR-5 Filter & Interaction Apply filters (Brand, Price, Range)Enable user
interaction

FR-6 Dashboard Development Combine multiple sheetsDesign interactive
dashboard layout

FR-7 Story Creation Create story pointsShow step-by-step insights

FR-8 Insights Generation Analyze trends and patternsProvide meaningful
insights

FR-9 User Access Allow users to view dashboardInteract with filters

FR-10 Report Sharing Publish dashboardShare via link or Tableau Public

SOLUTION REQUIREMENTS

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)