Project Design Phase-II
Solution Requirements (Functional & Non-functional)

Date	29 January 2026
Team ID	LTVIP2026TMIDS87959
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	User Access	User can access the system without login
FR-2	Data Upload	User can view EV data and visualizations
FR-3	Data Visualization	Upload EV datasets in CSV format
FR-4	EV Model Comparison	Display charge vs range charts
FR-5	Filtering Options	Compare EV models based on range, price, and time
FR-6	Charging Analysis	Display charging time and charging efficiency

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	The system should be easy to use and understand for all users
NFR-2	**Security**	Uploaded data should be securely stored and accessed
NFR-3	**Reliability**	The system should provide accurate and consistent results
NFR-4	**Performance**	Visualizations should load quickly without delay
NFR-5	**Availability**	The system should be available whenever the user needs it
NFR-6	**Scalability**	The system should handle large EV datasets efficiently