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

Date	4 July20252025
Team ID	LTVIP2025TMID48825
Project Name	visualization tool for electric vehicle charge and range
Maximum Marks	4 Marks

Functional Requirements:

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	The interface must be user-friendly, responsive, and accessible across devices
NFR-2	**Security**	User data and authentication must be secured via HTTPS and OAuth2
NFR-3	**Reliability**	System must function without failure for 99.5% of the time monthly
NFR-4	**Performance**	Dashboards should load in under 3 seconds for standard datasets
NFR-5	**Availability**	System should be available 24/7 with minimal downtime
NFR-6	**Scalability**	Capable of handling growing number of users and larger datasets without performance degradation

Following are the functional requirements of the proposed solution

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Form Registration through Gmail Registration through LinkedIN
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Data Upload	Upload CSV/Excel Connect to API for real-time data Schedule batch updates

FR-4	Data Visualization	Display EV range vs charge over time Interactive filters (location, vehicle type) Export charts (PDF/PNG)