

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

Date	6 February 2026
Team ID	LTVIP2026TMIDS91295
Project Name	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 Registration	Registration through Form Registration through Gmail Registration through LinkedIn
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Data Management	Upload EV datasets Store data in MySQL Update/Delete records Data validation and cleaning
FR-4	Visualization & Analysis	Connect MySQL to Tableau Create charts and dashboards Publish to Tableau Public Web integration

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	User-friendly dashboards with interactive visualizations
NFR-2	Security	Secure database access and safe publishing
NFR-3	Reliability	Accurate and consistent visualization results
NFR-4	Performance	Fast dashboard loading and query execution
NFR-5	Availability	Dashboards accessible anytime via Tableau Public
NFR-6	Scalability	Supports large datasets and future expansion