

**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	<b>Usability</b>	User-friendly dashboards with interactive visualizations
NFR-2	<b>Security</b>	Secure database access and safe publishing
NFR-3	<b>Reliability</b>	Accurate and consistent visualization results
NFR-4	<b>Performance</b>	Fast dashboard loading and query execution
NFR-5	<b>Availability</b>	Dashboards accessible anytime via Tableau Public
NFR-6	<b>Scalability</b>	Supports large datasets and future expansion