

Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Date	28 June 2025
Team ID	LTVIP2025TMID47899
Project Name	Plugging Into the Future – An Exploration of Electricity Consumption Patterns using Tableau.”
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	Dashboard View	- View electricity consumption by day/week/month - Visualize trends and comparisons - Export data as PDF/Excel
FR-4	Notifications	- Bill prediction alerts - Usage limit warnings - Tips for saving electricity

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 have an intuitive, user-friendly interface for all users
NFR-2	Security	User data and consumption information must be securely stored and encrypted.
NFR-3	Reliability	The platform should function without failure during normal operations.
NFR-4	Performance	Dashboard visualizations and reports should load within 3 seconds.
NFR-5	Availability	The system should be accessible 99.9% of the time, including during peak hours.
NFR-6	Scalability	The solution should support increasing users and data without performance loss.