

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

Date	17/06/25
Team ID	LTVIP2025TMID59134
Project Name	Plugging into the Future: An Exploration of Electricity Consumption Patterns Using Tableau
Maximum Marks	4 Marks

Functional Requirements:

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 & Storage	Upload CSV File Store into MySQL Database
FR-4	Data Visualization	Create visualizations in Tableau Integrate with dashboard Create time, region, and sector-based charts
FR-5	Dashboard Access	View interactive Tableau dashboard Use filters (Year, Region)
FR-6	Web Integration	Embed Tableau dashboard into Flask-based UI
FR-7	Insights & Reports	View data stories Access summary reports on usage patterns

Non-functional Requirements:

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Interface should be intuitive and user-friendly for both technical and non-technical users
NFR-2	Security	Secure login with OTP/Email, protected data access
NFR-3	Reliability	System should consistently provide correct visualization
NFR-4	Performance	Dashboards should load within 3–5 seconds even for large datasets
NFR-5	Availability	The platform should be available 24/7 without major downtime

NFR-6	Scalability	Should support addition of new datasets and visualizat
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