

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

Date	15 May 2023
Team ID	PNT2022TMID01575
Project Name	Project - A Reliable Energy Consumption Analysis System For Energy-Efficient Appliances

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 Facebook
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	User Forgot Password	Confirmation via Email Confirmation via OTP
FR-4	Login	Login through Gmail Login through Facebook

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Easy to use GUI interface, Easier to input values and get result.
NFR-2	Security	User data are secured and only access is provided based on authentication.
NFR-3	Reliability	The Solution provided results effieciently when correct parameters are inputted and show the Energy Consumption Effectively
NFR-4	Performance	Its Flask based and Python Scripting language will engage users to use this project to get results as soon as possible will less processing time
NFR-5	Availability	It will be available to single user, Small Company based and Manufacturing Agencies.
NFR-6	Scalability	Adapting this Solution can be implemented across household and can effective be scaled to reduce extreme power generation - wastage

