



Project requirements

Name:	Archisha Bhattacharya
Community & UN SDG(s):	Individual participation/Serving a context community: Members of residences in Canada who wish to track and manage their household energy consumption to adopt sustainable practices. Goal(s) 7 and 11
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Project Name

EconergyCalc

Functional Requirements

1. User authentication:
 - FR1.1: The system shall allow users to register, log in, and log out.
 - FR1.2: The system shall authenticate users using a secure method (e.g., password, OTP).
2. Dashboard:
 - FR2.1: The system shall display an intuitive dashboard featuring a list of added appliances and basic consumption statistics.
 - FR2.2: Users shall be able to add, edit, or delete appliances.
3. Add appliance:
 - FR3.1: The system shall allow users to input and modify appliance details (name, power rating, usage duration, and quantity).
4. Notifications:
 - FR4.1: The system shall send notifications to users for various alerts and reminders.
5. Community forum:
 - FR5.1: Users should be able to share their achievements and post on the forum.
 - FR5.2: The system shall display a leaderboard based on energy-saving metrics.

Technical/Performance Requirements

1. User authentication:
 - TR1.1: The system should securely encrypt and store user credentials.
2. Dashboard:
 - TR2.2: Any action (add/edit/delete) shall reflect immediately on the dashboard.
3. Add appliance:
 - TR3.1: All entries shall be validated for format and data type.
 - TR3.2: Changes shall be updated in the database.
4. Energy Consumption Calculation:
 - TR4.1: Calculations of consumption and cost should be accurate.
 - TR4.2: Calculations should be completed and displayed immediately following data input/update.
5. Notifications:
 - TR5.1: Notifications shall be sent in real-time.
6. Community forum:
 - FR6.1: The leaderboard should be updated in real-time.