



Project scope

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
Project Deliverables	
User authentication	<input type="checkbox"/> The user registers for a new account or logs into their existing account.
Dashboard	<input type="checkbox"/> The user is presented with real-time analytics of their energy consumption patterns, categorized by day, week, and month. <input type="checkbox"/> The user can see all the appliances they've added and has options to modify or add more.
Add appliance	<input type="checkbox"/> The user inputs details about their appliance: <ul style="list-style-type: none">○ Name: Users input the name of the appliance (e.g., refrigerator, TV).○ Power Rating: Users input the power rating (in watts) of the appliance.○ Usage Duration: Users input the average number of hours the appliance is used per day.○ Quantity: If there are multiple units of the same appliance, users input the number. <input type="checkbox"/> As an alternative, the user can capture a photo of the appliance, and the app auto-fills its details.
Energy Consumption Calculation	<input type="checkbox"/> The user observes a detailed breakdown of energy used by each of their appliances. <input type="checkbox"/> The user gets an overview of their total energy consumption and an estimated cost based on local energy tariffs.
Provide actionable recommendations	<input type="checkbox"/> The user receives tailored advice on energy-saving methods and sustainable practices based on their specific usage patterns.
Community forum	<input type="checkbox"/> The user can participate in discussions, pose questions, or share insights about energy conservation in a dedicated forum. <input type="checkbox"/> The user views a leaderboard, showcasing the most energy-efficient households, providing motivation.



Project Exclusions

- ☐ **Community Forum Interactions:**
 - The user should be aware that posts within the community forum are not moderated for accuracy, meaning they should exercise discernment when acting on advice.
 - While the community forum facilitates discussion, the user won't find certified experts specifically designated for consultations.
- ☐ **Technology Limitations:**
 - The user might find that certain IoT-enabled appliances they own might not seamlessly integrate with the application due to constraints in time or resources.