Project Status report

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Community (UN SD goal):	**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
MVP #	1, 2 and 3
Sprint cycle dates:	November 15, 2023 – December 8, 2023

Project Name	EconergyCalc – Home Energy Calculator Application
Blurb	This project aims to build an interactive web application where users can add or log the electrical appliances they use regularly in their household and receive their total energy consumption. The application will also provide users with weekly/yearly energy consumption predictions and give actionable recommendations, such as providing more sustainable or eco-friendly alternatives for appliances that use more energy than they should. In line with UN Sustainable Development Goals 7 (Affordable and Sustainable Energy) and 11 (Sustainable Cities and Communities), this project addresses the pressing global challenge of household energy consumption.
For Week Ending	• Presentation/demo: November 30, 2023 • Date of the report-out: December 8, 2023
Project Status	Green
Status Description	• MVP #1, #2, and #3 have been completed. • Additional features such as Appliance Lookup using Model Number and Estimated Cost of Energy Consumption were implemented.

Activities—During the past sprint cycle

Front-end Development
- **Dashboard:**
    - Improved User Interface (UI) by adding icons for different appliances in the appliance list cards.
    - Introduced icons and tags to denote appliance metadata.
- **Forum:**
    - Integrated a leaderboard of most active users based on the likes received on their posts.
    - Enabled users to like/dislike posts on the forum.

Backend Development
- **Recommendations:**
    - Enhanced the recommendation generation by adding more thresholds based on the appliance's power rating and compliance with Energy Star guidelines.
    - Deployed functionality to add points to a user's profile when their post gets a like.

Project Issues

- Encountered issues with fetching response using Energy Star API as CORS policy does not allow fetching results from external domain when running MERN application on localhost.
  - An alternative solution was found by downloading .csv files of the dataset available and creating APIs to fetch information from the .csv file.

Project Changes

There were no project changes approved since the last report/discussion.

Activities—Planned for Next Week

- Plan to add links to external resources such as Energy Star compliance.
- Intend to provide in-depth reasoning and analysis of the recommendations being produced and how users can learn more about their energy consumption and how to reduce it.

Reflection

Do you feel "on track"?
- Yes, I feel on track as MVPs 1, 2, and 3 have been completed.

What progress do you particularly feel good (great) about?
- I am particularly pleased with the progress of learning a new tech stack and successfully using it to create a full-stack application.
- The implementation of the leaderboard system is another achievement I feel great about.

What barriers (if any) do you feel is/are a current impediment to success?
- Currently, there are no significant barriers impeding success.

What help (if any) do you require to move positively forward?
- At this moment, no additional help is required.

What questions or concerns do you have (if any)?
- There are no questions or concerns at present.