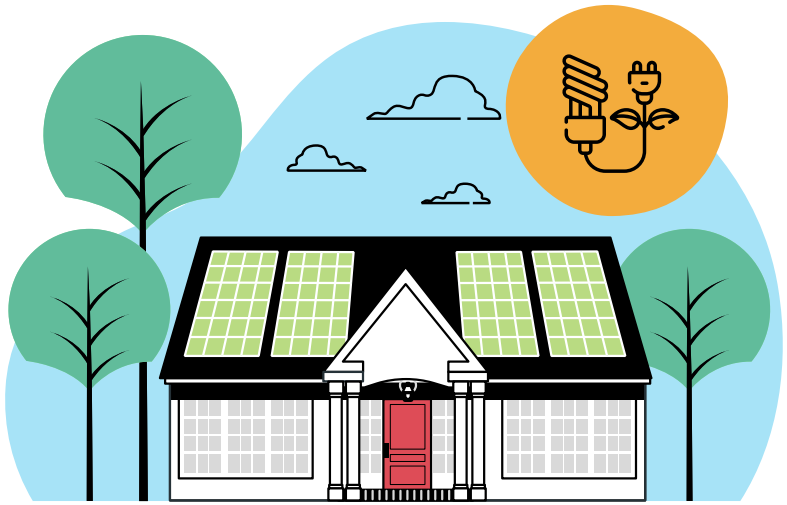

ENSE 405 Scrum 1:

EconergyCalc - Home Energy Calculator Application

By Archisha Bhattacharya

Project Introduction

Aim

Develop an interactive web application for users to log electrical appliances and calculate total energy consumption.

Benefit

Provides weekly/yearly predictions and actionable eco-friendly alternatives.

UN SDG(s)

Meets UN Sustainable Development Goals 7 & 11.

UN SDG 7 – Affordable and Clean Energy

UN SDG 11 – Sustainable Cities and Communities

Source: https://sdgs.un.org/goals/goal7, https://sdgs.un.org/goals/goal11

Project Status

Status: Yellow

- Adapting to MERN technology stack is time-intensive.
- The process of researching and identifying the most efficient APIs for actionable recommendations is still in the pipeline.

Actions to Return to Green

- Dedicate more hours to MERN stack and consider guidance.
- Prioritize API research.

Activities—During the past sprint cycle

Front-end Development:

- Created pages for user Login/SignUp, which will allow secure and efficient user onboarding.
- Implemented 'Add New Appliance Form', tailored to capture appliance-specific details.
- Created a static Dashboard page to display energy metrics.

Back-end Development:

- Completed initial MongoDB configuration, to add new users and appliances

Project Issues and Changes

Project Issues

None

Scope Refinement

- Due to time constraints and to maximize user engagement, the project's focus has been narrowed specifically to kitchen appliances.

Usage Logging Feature

- Introduce a new feature allowing users to log appliance usage, fostering daily or weekly tracking.

Appliance State Toggles

- Integrate a user-friendly system enabling users to "tag" their appliances as active or inactive, enhancing real-time energy consumption tracking.

Activities—Planned for Next Week

Integration

- Bridge the front-end and back-end systems, ensuring seamless data exchange and enhanced functionality where users will be able to create accounts and store appliances.

MVP #1 Completion

- The primary objective is to complete the first Minimal Viable Product, encompassing secure user registration, appliance management, and comprehensive energy consumption analytics.

MVP #2 Kick-off

- The next phase will embark on the journey to enhance dashboard analytics, encapsulating visual representations of daily, weekly, and monthly energy consumption trends.

Thank you!

Questions?