Project Milestone 5
Group 07-12

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Test Plans:

Goal: ensure the app works through testing individual features, including the login functionality, dashboard

Login / Registration:

1) Test user input for username and password matching in the database
    a) If both the username matches an entry in the database, then they should be redirected to a dashboard page updated with the information relevant to their account (Manual testing)
2) Test for user input being invalid and ensure the server throws an error
    a) If either the username or password doesn't match an entry in the database, then the user should receive a relevant error message telling them why they were not able to log in (Using Mocha and Chai)

Dashboard:

1) Test that the debt tracker wheel is being sent relevant updates when changes to the fridge are made (Mocha and Chai)
2) Test negative and positive values and that each person is displaying the correct amount that they owe (Mocha and Chai/Manual Testing)
3) Test edge case such as zero amount owed, make sure algorithm works with floating point values and such
    a) Positive test case: Add different numbers for items in the fridge, floating point, etc and then make sure server.js get request is sending the correct amount owed for each person (using Mocha and Chai)
    b) Make sure both negative and positive values show up in the correct format on the balance wheel (manual testing)

Fridge:

1) Test that the add food item button successfully adds records to the database and that they are displayed on the page (manual testing)
2) Test that the eat and delete food item buttons successfully remove quantities of food or certain records from the database (mocha, chai)
3) Test different household ids to ensure that only food from one household appears at any time

Individual Contributions:

- **Thomas -** Developed front-end for landing page and the navbar used throughout the project. Contributed to writing test cases and developing the testing plan for the project. Helped with database planning and design.

- **Everett -** Implemented backend for calculating balances owed to each person, then implemented ejs along with regular javascript to generate chart on page load with correct colors.
- **Ben** - Implemented the fridge system so items are displayed to the user from their household. Users now also have the ability to add items. Overhauled the dashboard to display the fridge as well instead of it being on a separate page. Helped write test cases for the fridge.
- **Chaz** - Implemented backend for login and registration page. For login, checks to see if username and password exists in the database and matches, then loads the dashboard page. For the registration page, a user can input their username and password in order to join an existing household.