Project Milestone 7
Group 07-12

Thomas Burton
Ben Peterson
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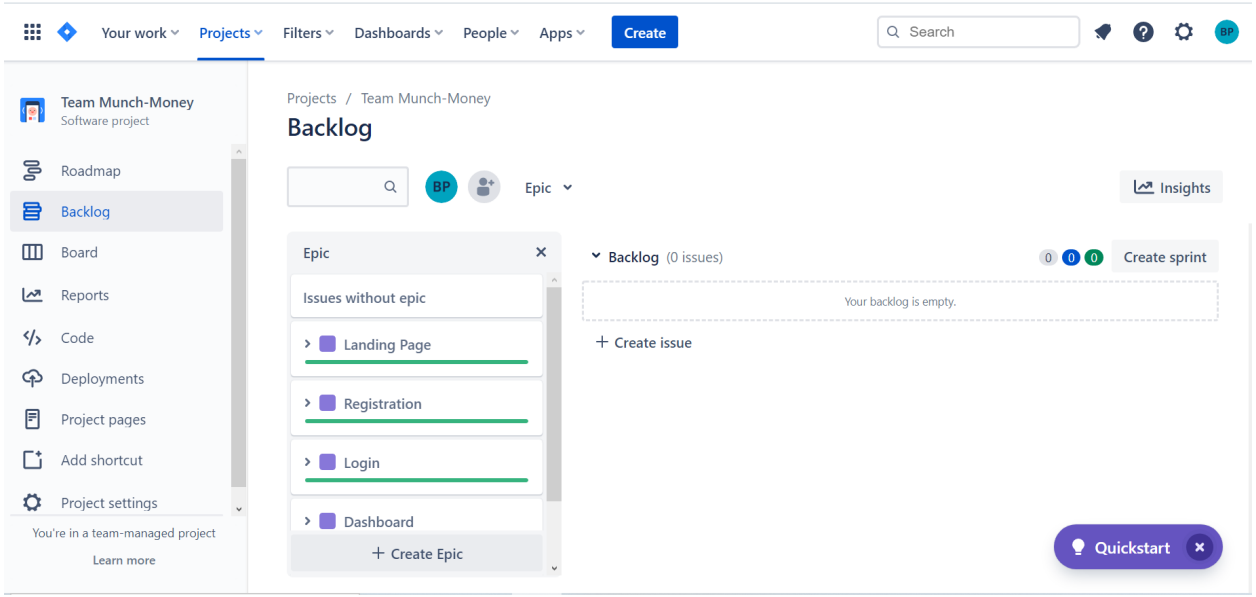
Title: SnakTrak

Who: Ben Peterson, Thomas Burton, Chaz Morton, Everett Kirkpatrick

Project Description: SnakTrak is a web application built on NodeJS designed to help college students manage food expenses with their roommates. When roommates decide to use SnakTrak, they register their accounts with the same household ID, which gives access to a virtual fridge and balance chart which they will all have access to on their own separate accounts. They can then add items to the fridge, which they can then delegate a quantity and price per unit for each item. Other roommates can then grab these items, indicating that they have also grabbed this item in real life. Once a user grabs an item, the balances are updated on the chart. The user who grabbed an item will show that they owe one of their roommates, which is indicated by the red color on the chart. Hovering over the red slice on the chart will show which roommate they owe money to. Should the user who provided the food log in, they will see a green slice on their chart, indicating that one of their roommates owes them money. Again, hovering over the chart will indicate who owes money to them. Finally, once all balances have been settled, the household can agree to wipe the balances from the chart to start fresh by pressing the “clear balance” button.

Project Tracker:

- https://csci-3308-fall21-012-07.atlassian.net/jira/software/projects/T07/boards/1/roadmap?shared=&atlOrigin=eyJpIjoiNWVmYWFlOTkwYzU0NDM3NGFhZDRhNTUwMWFlNmMzYjAiLCJwIjoiaiJ9



Note: as we have already completed all of the items in our tracker, they no longer appear. Viewing the details of each epic will reveal the tasks that were previously completed and no longer present. See the bottom screenshot for an example:

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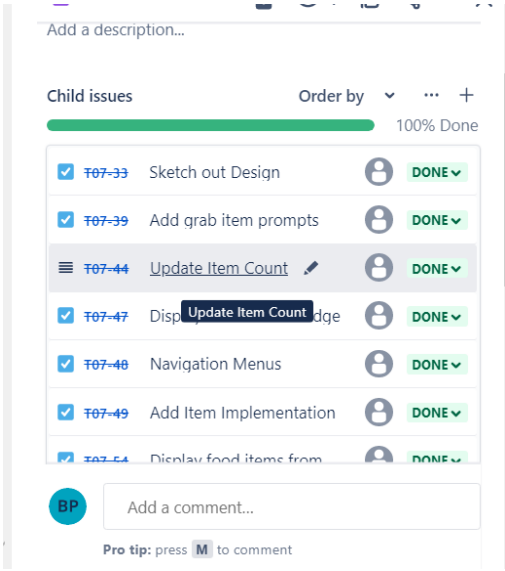

Video:
https://drive.google.com/file/d/17oH7QVE6U2x6qPbNCIBz4lSNdUsvP8hs/view?usp=sharing

VCS: https://github.com/CU-CSCI-3308-Fall-2021/CSCI-3308-Fall21-012-07

Contributions:
Ben: I developed the fridge and item interface for our project using a combination of EJS for the front end while getting queries from the backend. I implemented a session storage system for our project using the express-session package. I also implemented a lot of the foundational back-end in NodeJS, including all of the fridge population queries. I converted all of our original HTML pages into EJS and made the corresponding render pages in the Server.JS file. I also deployed our project onto Heroku. **Link to commit history: https://pastebin.com/STBRqTTS**

Chaz: Created the login and registration pages. For the login I used a post request that took in the user's input for username and password, which then checked with the database to make sure the user's credentials were correct. It also told the user if the username or password were incorrect. I also created the registration page, where users entered in a username, password, confirm password, and a household id. The registration page used a post request to insert these inputs into our database, which then redirected them to the login page afterwards. **Commit History:** https://pastebin.com/0YsmCdek

Everett: I developed the balance wheel that displays balances owed to each person. I also developed the back-end algorithm that calculates balances owed to each person based on a SQL table. This was in JavaScript. I also developed the SQL database for the project, including

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designing javascript queries to the database. I had a few html contributions including the beginning of the balance wheel using a javascript library called chart.js.
Commit History: https://pastebin.com/CswEviDL

Thomas: I designed the front-end interface of the website (landing page, navbars, layout), and implemented that using the NodeJS framework with EJS templating, Bootstrap and elements of javascript such as jQuery. Contributed to database and system design (diagrams). I also created the slide deck used in our final presentation and put together a few of the project milestones.
Commit History: https://pastebin.com/259PaYA0

Deployment: https://snaktrak.herokuapp.com

- You can also download the project code locally and run it with localhost:3000 should you wish to do a local deployment