Project Milestone 4
Group 07-12

Thomas Burton
Ben Peterson
Chaz Morton
Everett Kirkpatrick

Revised List of Features:

- Landing Page
    - Displays information about the application, how it can be used, in an easy to understand and aesthetically pleasing way. Includes graphics, animation, and links to login/registration pages.
- Login / Registration Capabilities
    - Login page: allows users to login to their existing account, which communicates with the database to verify and sends them to the dashboard page with the appropriate information displayed for their account.
    - Registration page: allows users to register for a new account, communicates with and stores it in the database, prompts them to either join a ‘household’ or create a new household, which is also stored in the database—then sends them to the dashboard.
- Dashboard
    - Displays all relevant account information. This includes the debt tracker wheel, which shows which roommates owe you money as well as who you owe money and the amount.
    - Has a feed section of the page, which shows the latest 10 actions taken in the household / fridge. This can be actions such as ‘x paid off their debt to y!’, or ‘John ate 2 of Gabby’s banana’s.’
    - Has link to fridge
    - Paying back roommates will now be implemented as follows: roommates will pay each other by referencing the chart, and then after they have done so, a user can click the “clear outstanding balances” button, which will reset all of the user balances back to 0.
- Fridge
    - All of the items in the fridge will be displayed, but we are no longer going to try and implement it with images displaying the food as well
    - Eat and delete buttons will now be built into each card
    - Adding a food item will be done on the same page now instead of popup

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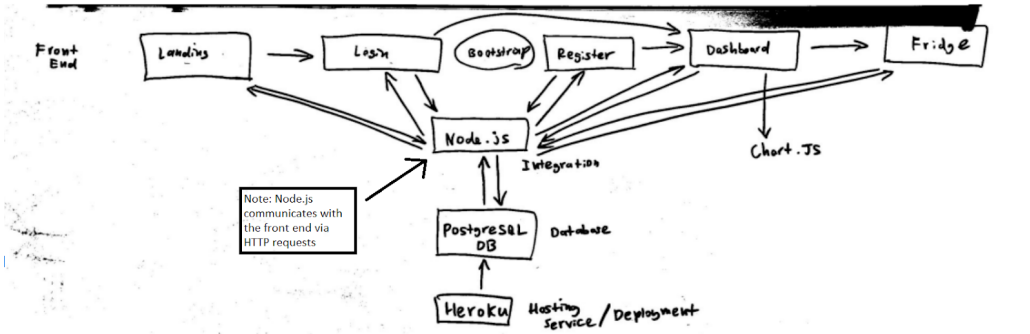
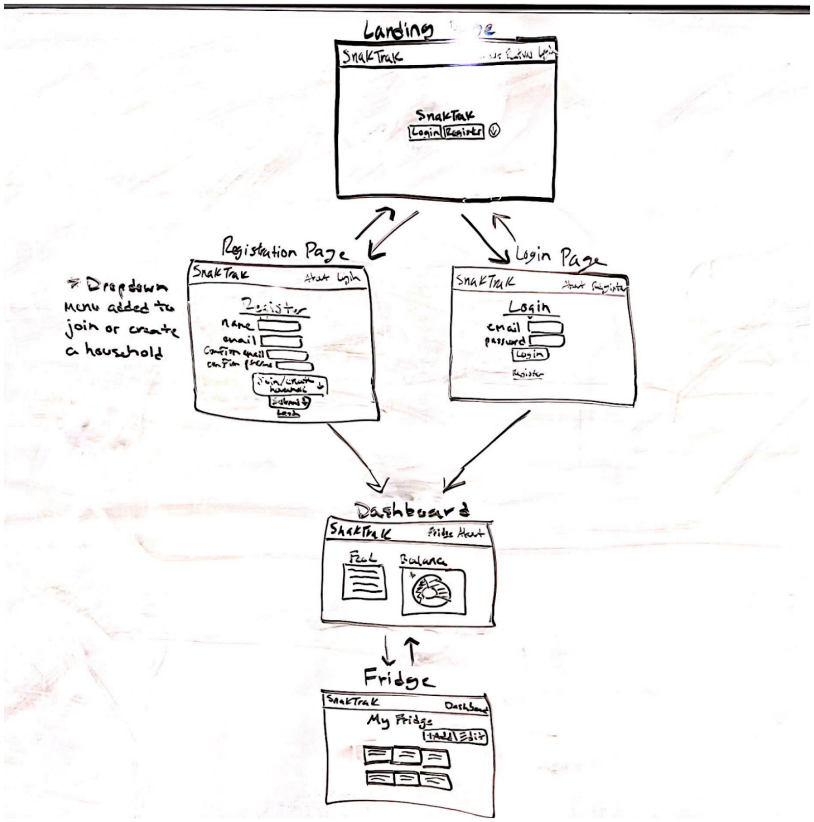
Architecture Diagram:



Front End Design:



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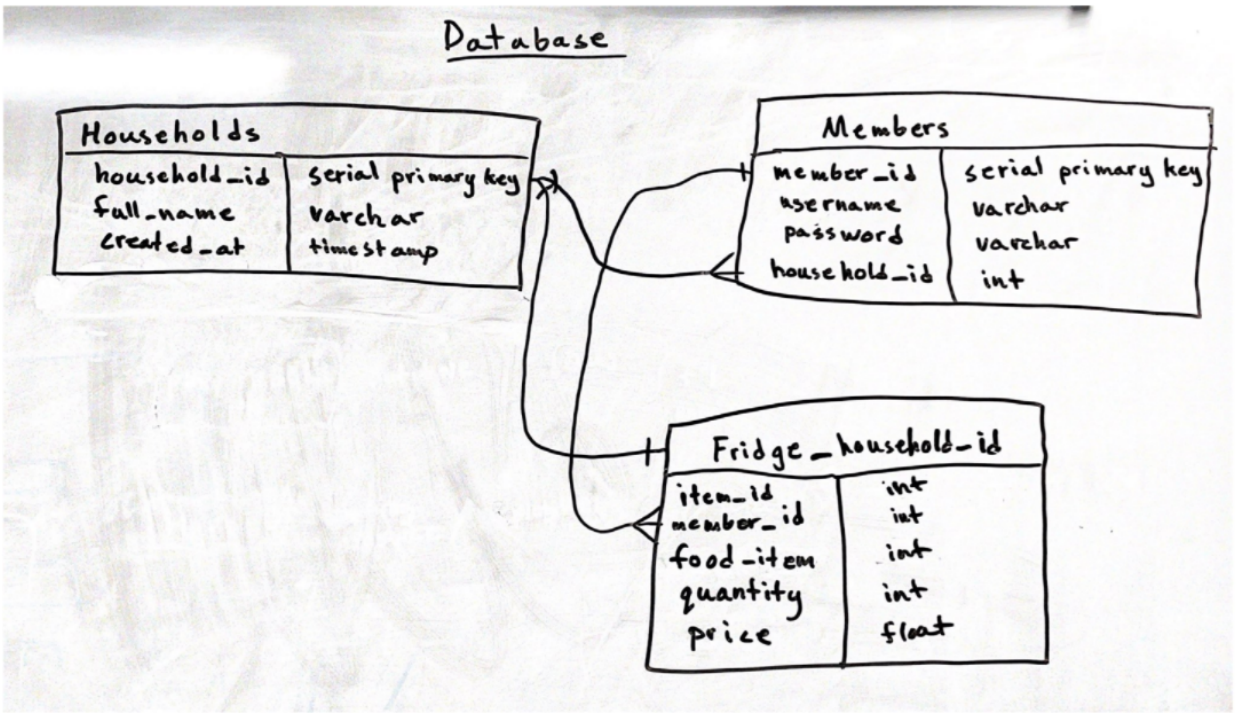
Web Service Design:

- Not using any web services via APIs

Database Design:



Challenges:

- Lack of knowledge about database design/setup - all of our labs have had the databases and docker containers set up for us, so it is challenging to figure out how to implement those successfully
- Time constraints - this project is due in a few weeks, and we have only recently learned how to program all of the features we want to implement
- NodeJS functionality - NodeJS has a tendency to be very finicky, so it is difficult to practice clean coding techniques with it
- Backup/Risk mitigation plan: our backup plan is to scale back on functionality and features should we not be able to complete our project in time.

Individual Contributions:

- **Ben:**
  - Wrote challenges section
  - Contributed to revised list of features section
  - Helped design architecture diagram (different layers, JS implementations, etc)
- **Thomas**
  - Drew architecture diagram
  - Wrote revised list of features

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- **Chaz**
  - Drew front-end diagram
  - Updated Jira Board
- **Everett**
  - Drew database diagram