CalTracker+

## Your Ultimate Calorie Tracking Solution

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Product/Project Description

- Do you need help reaching your fitness goals? Introducing CalTracker+, the future of calorie tracking.
- Don't know how many calories you need to eat to reach your goals? Upon sign up on CalTracker+, you will enter fields about your body and your fitness goals and we will provide you with your daily calorie goal.
- Don't know what you should eat to reach this goal? Our application provides recipes based on desired search filters that fit within your goals, which eliminates the stress of meal planning.
- You can then input all of your food that you have eaten into the tracker page where it will display the current calories for the day. (if you spill over your goal calories you will be notified.
- It will then show up in a food log which allows you to keep track of meals, which can be reset as desired. (Can I track all of my food for a month? Absolutely! What about a for one day? Certainly!)
- Each day you can reset your calories for a fresh start!

Architecture Diagram
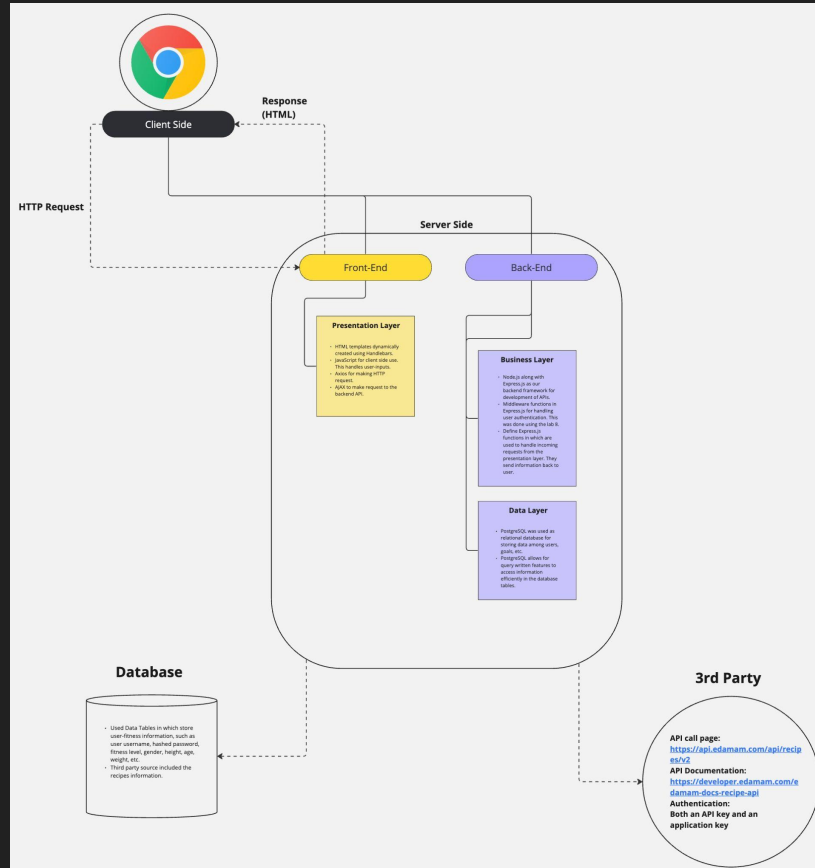
Development Tools/Technical Details

- **Project Tracker**
  - Github Projects - Rating = 4
- **VCS Repository**
  - Github - Rating = 5 (Everyone loves github)
- **Database**
  - Postgresql - Rating = 4 (table setup requires extensive planning)
- **IDE**
  - Vscode - Rating = 5 (Everything you need in one environment)
- **UI Tools** - Rating = 5 (simple frontend languages that are easy to use)
  - HTML
  - CSS
  - Handlebars
  - Bootstrap
- **Application Server**
  - NodeJS - Rating - 5 (Easy to set up)
- **Deployment environment** - Rating = 5
  - Azure, localhost, docker
- **External APIs** - Rating = 2 (didn't seem to do what it said it did)
  - *Edamam - Recipies Database*
- **Testing tool**
  - *Mocha* - Rating = 5
- **Framework**
  - *Express.js* - Rating = 5 (allows us to do routing, templating, error handling etc)
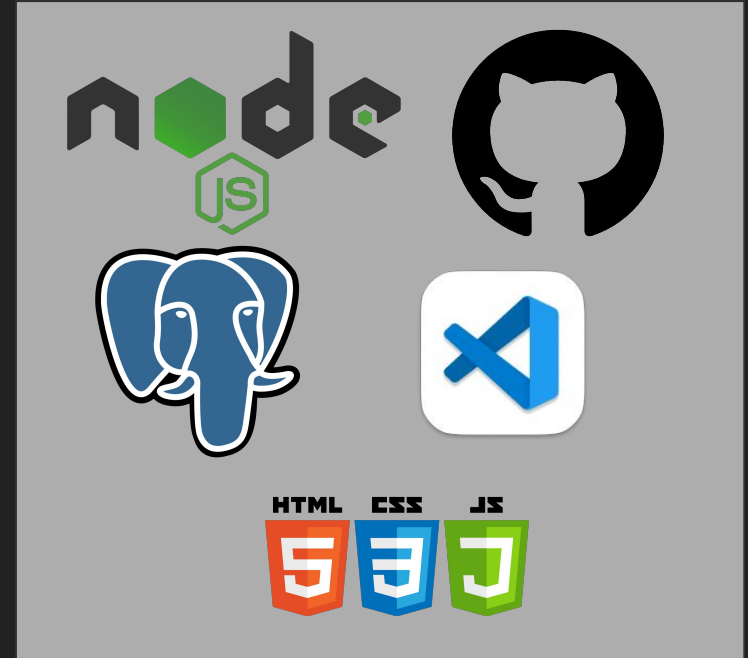
Methodologies

-Scrum Meetings after TA meeting on Monday

-Also meet Thursday after Recitation

-Agile Development

-Pair Programming during meetings

Challenges

Database Issues
We determined that it was impossible to store our data in a normalized matter with one table. This required us to alter the design of our database and split the table into three connected by foreign keys.

API Issues
After refining our API calls to correctly pass and handle data, it was determined that the API was not correctly passing back recipes that fell within the given ranges for calories or nutrients. To solve this, we had to post-filter the response data in order to pass only the correct recipes to our recipes.hbs page.

Future Scope/Enhancements

- One thing that we can add in the future, is a page where you can keep track of each of the previous day.

- Combining the tracker page with the recipes to automatically log a chosen recipe and keep track of said recipe.

- Recommend food options/portions after you track your calories for a good meal for the rest of the day.

Live Demo!