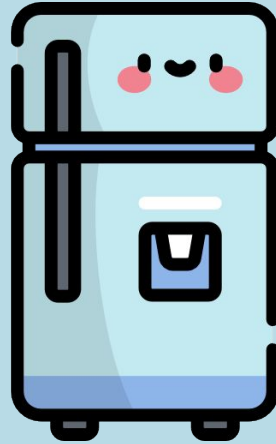


Fridge*Fusion*



By Frankie Nuffer-Rodriguez, Robert Schmidt, Hanna Choi, and Rodrigo Franklin de Mello Nicastro

Vision

Fridge Fusion is designed to help home cooks, students, and busy people everywhere answer the question:

“What can I cook with what I already have?”

By simply entering the ingredients currently in your fridge or pantry, the website suggests complete recipes—saving time, money, and food waste.

Whether you're exhausted after work or hosting a dinner night with friends, Fridge Fusion makes it easy, fun, and collaborative to get cooking.

Features

- **Ingredients Storage**

- Ingredients in the user's fridge is stored in a database connected the user's account.
- Start typing and pick from the dropdown menu to add it to the fridge.

- **Smart Recipe Generation**

- The application returns recipes that can make based on the user input ingredients using the Spoonacular API.

- **Friend Linking**

- Users can add friends and combine fridges to discover recipes based on their combined ingredients.
- Perfect for group dinners, roommate meals, or planning ahead. It brings a social touch to cooking.

Tools Used - Frontend

- HTML
 - Page structure and organization
 - ★★★★★
- Handlebars
 - Templating
 - ★★★★★
- Bootstrap
 - Styling
 - ★★★★★

HTML

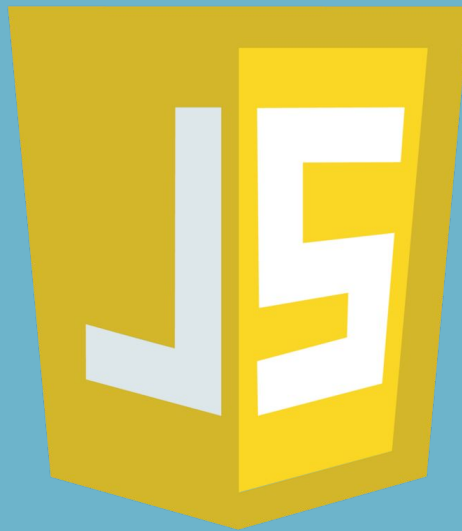


handlebars



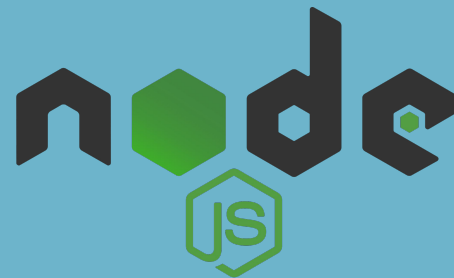
Tools Used - Middle Layer

- JavaScript
 - Route handling
 - ★★★★★



Tools Used - Backend

- PostgreSQL
 - Database handling
 - ★★★★★
- Node.JS
 - Server-side scripting
 - ★★★★★
- Spoonacular API
 - Fetch recipes
 - ★★★★★☆



Tools Used - Version Control and Tracking

- **GitHub**
 - Version control, integration of changes from different people
 - ★★★★★
- **GitHub Tasks**
 - Organization of tasks to be done
 - ★★☆☆☆
- **Discord**
 - Communication, troubleshooting, sharing credentials
 - ★★★★★



Tools Used - Testing

- Mocha/Chai
 - Backend testing
 - ★★☆☆☆

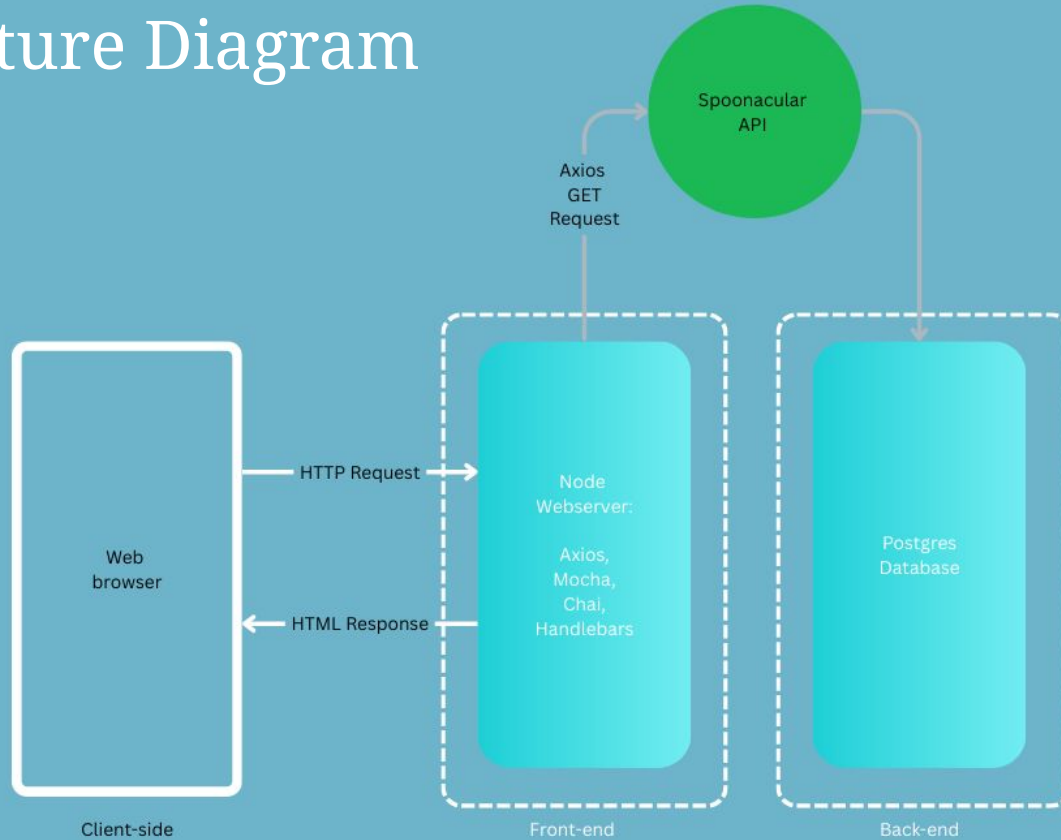


Tools Used - Dev Tools and Misc

- Docker
 - Containerization
 - ★★★★★
- Dotenv
 - Environment configuration
 - ★★★★★
- Render
 - Deployment
 - ★★★★★



Architecture Diagram



Challenges

- **Getting the database to work**

- We initially wanted to share the data stored in the DB through github in order to accumulate data during development, but the DB ended up getting hopelessly corrupted frequently.
- Switched to create.sql/insert.sql model.

- **Compatibility with all devices**

- Fonts and photo sizing

- **Spoonacular API**

- Not unlimited

Future Scope/Enhancements

- **Advanced Recipe Filtering**
 - Allow users to filter recipes by dietary needs (vegan, gluten-free, keto).
- **Meal Planning**
 - Enable users to plan meals for the week.
 - Sync with a calendar or shopping list to integrate meal plans.
- **Community Recipe Sharing**
 - Expand on the social aspect of the application.
 - Let users upload their own custom recipes.
 - Let users rate or comment on other ingredients.
- **Machine Learning Suggestions**
 - Implement AI to suggest recipes users might like based on past cooking behavior or trends.

Demo

