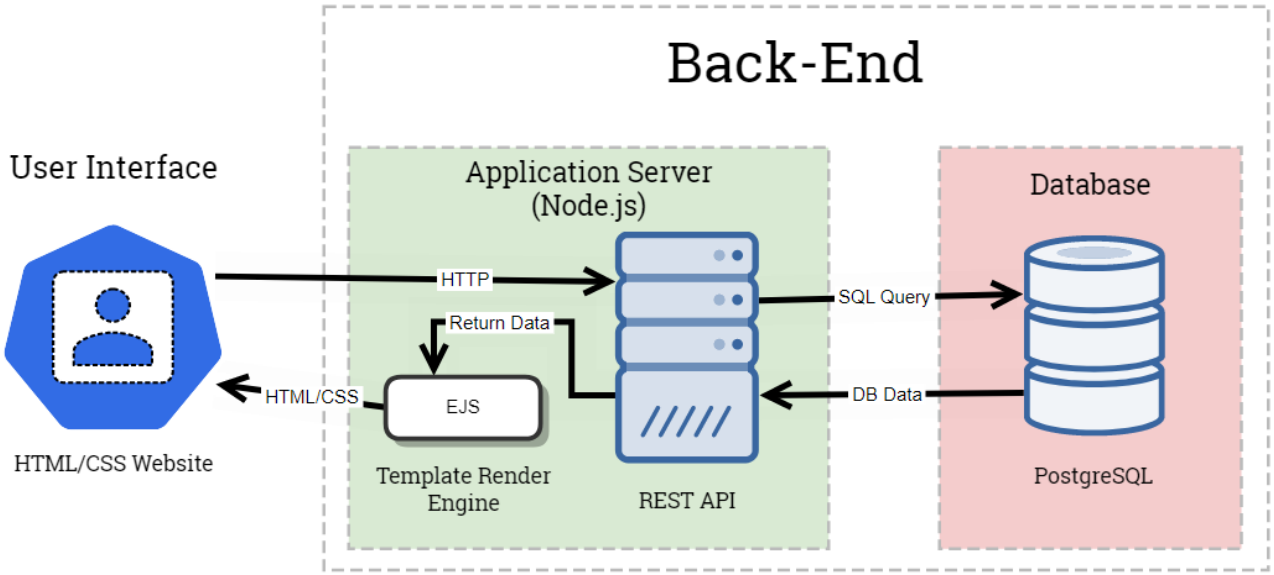
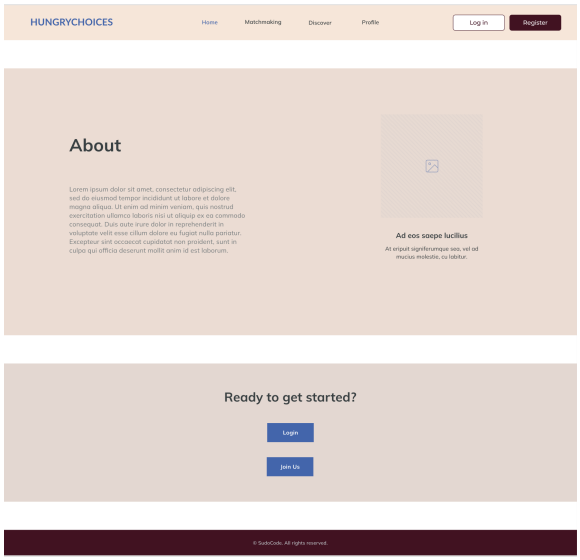
Revised List of Features

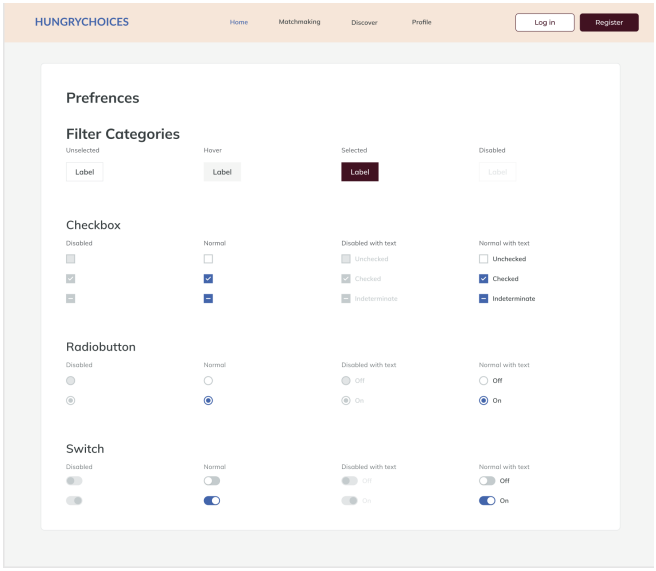
- *Swiping Recipes - Priority 1*
    - The swiping page that allows you to “match” with recipes that you like by swiping left/right or using the checkmark and X buttons. Matching with a recipe will add it to the user's profile.
- *Discover Recipes - Priority 2*
    - A discovery page where users can scroll through a continuous list of recipes all shown on one page. Users can use the “like” button to add recipes to their profile.
- *Account Creation - Priority 3*
    - Users are now able to create an account where their preferences, saved recipes, and more are saved. However, we need to ensure that this is secure and that passwords are hashed.
- *Food Matching Algorithm - Priority 4*
    - Based on what the user has entered in their preferences, the user should also be provided recommendations based on their swipes and preferences.
- *Add Recipes - Priority 5*
    - Users should be able to add their own recipes that are then added to the PostgreSQL database for other users to view.
- *Profile Information - Priority 6*
    - The profile page will allow users to set their profile photo, change/view their account information, view their liked recipes, and “unlike” recipes to remove them from their profile list. This page will also show user tendencies by showing their most common cuisine categories.

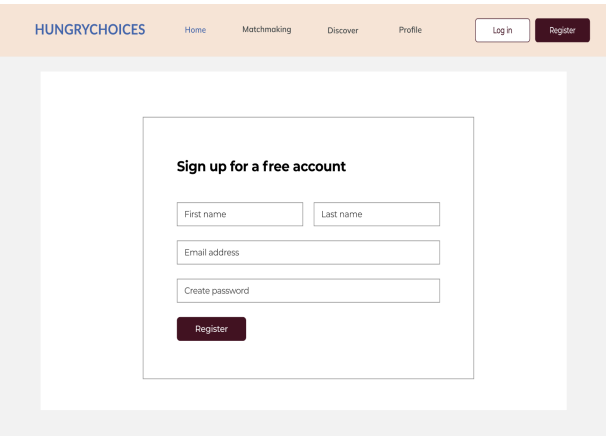
Architecture Diagram

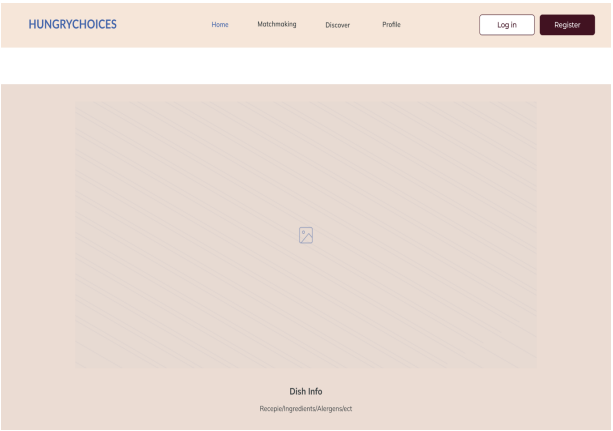


Front End Design







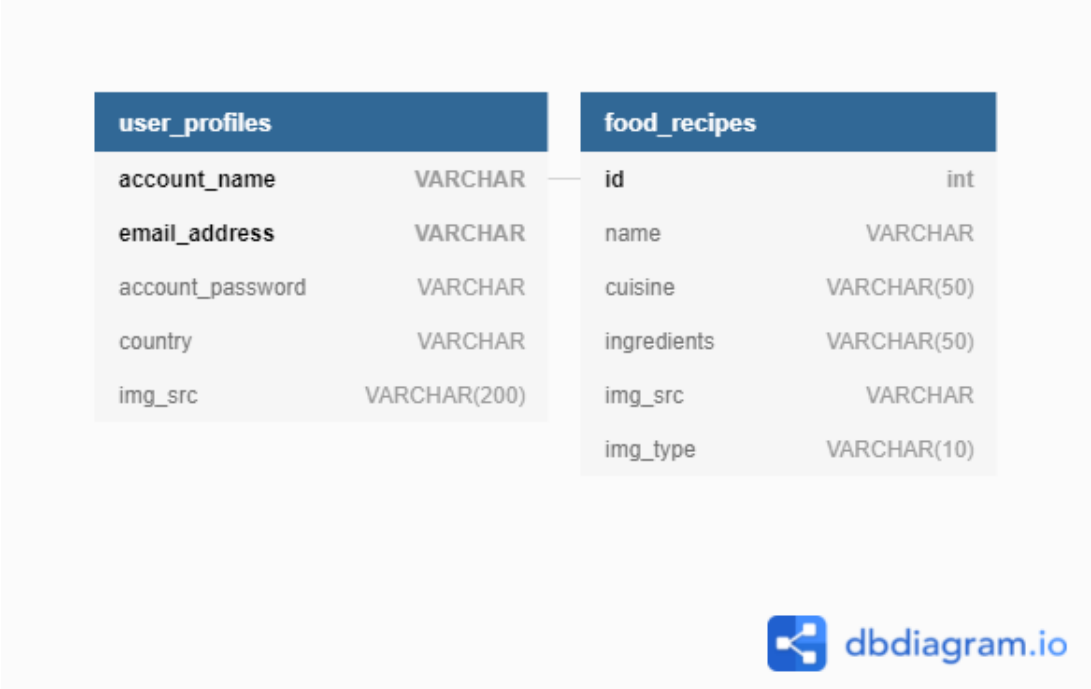


Web Service Design

As of right now we are not using any Web Services via APIs, however we plan on looking into the Google API to handle OAuth 2.0 for user authentication.

Database Design

The technology used to store our application data is PostgreSQL. As of right now two tables exist, one that stores user profiles and another that stores the recipes that will be displayed on the website. As of right now there is no security for the account_password, however we plan on looking into different options such as firebase, OAuth, or storing a hashed password in the database. The current database structure can be seen below:



Challenges

One of the challenges that we encountered was setting up Docker Compose so that we could get our database up and running. Some minor issues in Docker incorrectly created the database structure, and thus, our NodeJS GET and POST requests were unable to properly run. The biggest risk with this is that without an API/database, our website will be virtually useless because our main features involve the use of recipes and being able to view their information and pictures. However, after going through extensive troubleshooting we finally got our database up and running. Now we need to fix our GET and POST requests to ensure that our data is properly handled and so our website shows the correct information.

Another challenge was figuring out the use of an external api. The external recipe api would provide a recipe database that we could use instead of populating our own recipes. We have yet to figure out how to use the external api and connect it to our project. If we are unable to resolve this problem, we will manually populate our own database with recipes so that users can still view recipes and find matches. We will also allow users to create and add their own recipes so that the website can grow as more users visit it.

A third challenge that we are facing is converting the javascript used to auto populate the discover page to EJS with NodeJS for the database. Primarily, we are facing issues with the generation of our cards and spacing. This is because the existing functions that we built using client-side Javascript that generated the cards used html methods like “document.createElement().” Changing these into strings that can be added to the document using EJS has proven difficult, but we’re still fine-tuning it. If we are unable to use our custom cards, we may switch over to Bootstrap cards so that formatting is not an issue on different screen sizes.

Individual Contributions

The complete commit history can be found through the following link and individual contributions are listed below:
https://github.com/cub-csci-3308-spring-2022/csci-3308-spring22-014-07/commits/main

Talha -
https://github.com/cub-csci-3308-spring-2022/csci-3308-spring22-014-07/commit/a2b1940afef29e7fce4f30d9ff875edf98ab7b10

- Worked on the Docker Compose file and the implementation of the PostgreSQL database.
- Implemented GET requests for each page and templating through partials to keep style consistent across all pages.
- Developed the home page and the and the login modal with its underlying javascript
- Updated wireframe designs to reflect changes in the team vision

Kevin - https://github.com/cub-csci-3308-spring-2022/csci-3308-spring22-014-07/commit/102ff5d80318d4466843a8eb4f3ab562b57d25c1

- Swiping page functionality to like or dislike certain recipes pulled from the database
- Post request for registering an account on the website to the database

Riley - https://github.com/cub-csci-3308-spring-2022/csci-3308-spring22-014-07/commit/14dc9d2e2b02a4bc137d5bcc4ee0d953903ab69b

- Discover page implementation and style along with the underlying Javascript.
- Auto populate the discover page with cards and data pulled from the database.
- Redesigned the database to match the needs of our website and allowed for GET requests to use the database on the discover page.

Jawad - https://github.com/cub-csci-3308-spring-2022/csci-3308-spring22-014-07/commit/e138f217e3c4f1e008e0046a03ef887df78407d7

- Worked on the form for the registration page

Mari - https://github.com/cub-csci-3308-spring-2022/csci-3308-spring22-014-07/commit/da6e08f4ff538de43aec7fb9a97abaa436b59b11

- Worked on javascript for the registration page

Jonathan - https://github.com/cub-csci-3308-spring-2022/csci-3308-spring22-014-07/commit/e477a5e5470ceb2c792dc90d829d7a60149e2c51

- Developed the profile page and made it so that profile picture could be updated

A screenshot of the project management board being maintained for this project indicating the status of the tasks at hand can also be found below:

https://csci-3308-spring22-014-7.atlassian.net/jira/software/projects/T07/boards/1