

Team willCodeForFood - Emily Zhang, Michael Lin, Yaru Luo

SoftDev1 pd1

Design Document

Description: Our website is all about food! We will utilize the Recipe Puppy API to present a searchable recipe book, the Zomato API for a restaurant search engine, and the FoodData Central API in a food diary.

APIs

- **FoodData Central:** food nutrient profiles and descriptions
- **Zomato:** restaurant names, cuisines, and locations
- **Recipe Puppy:** recipe book

Core Components

- A. Navigation Bar
 - Present on every page to easily log in/out, view home page, recipe book, restaurants, and food diary
- B. User Accounts
 - Users must register for an account and log in to create a food diary
 - Users with accounts can utilize the food diary stored list of inputted food (breakfast, lunch, dinner, snacks)
 - Can provide details on the foods that are inputted
 - Don't need to register to view recipes and restaurants
- C. Recipe Book
 - Users can view recipes using a search form and will select for the type of search through a drop down menu
 - Returns recipe ingredients, website URL
- D. Restaurants Nearby
 - Users can view restaurants nearby using a search form and will select for the type of search through a drop down menu
 - Returns website URL, cuisine type, address
- E. Food diary
 - Users will be allowed to create multiple entries everyday
 - Owner of the diary allowed to add/edit/delete posts
 - Each post will display date, content, nutrition data, and restaurants
 - Users can use the search bar and add food along with nutrients data

Optional Components (if we have time)

- Implement Taco Fancy API for taco recipes
- Implement advanced searching for nutrients to utilize other fields in FoodData Central API
- Automatic recipe processing for food diary entries
- Use that quotes API to have motivational quotes about eating healthy or food
- User profile, which will contain user info and the ability to change password

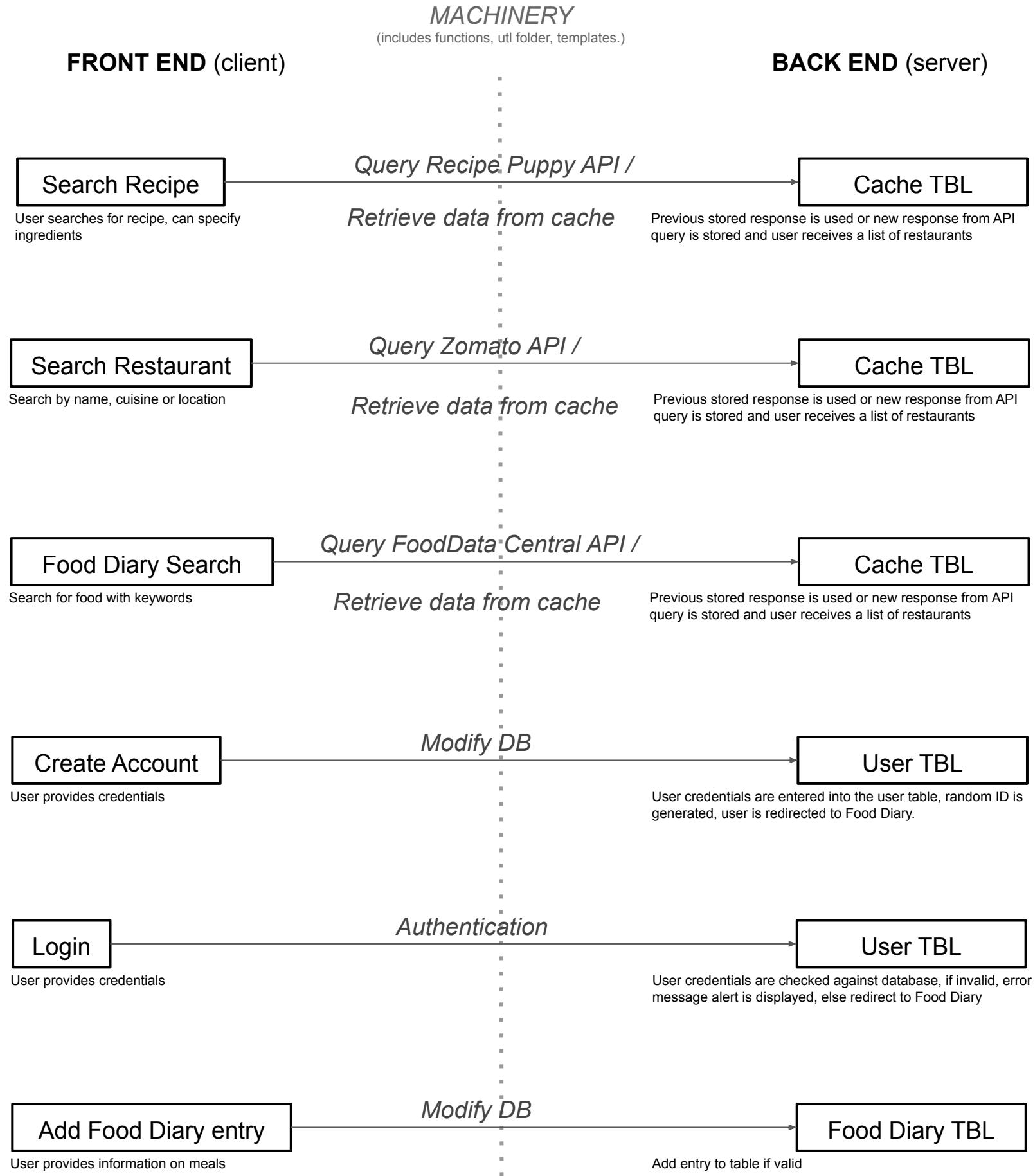
Communication App: Slack

Breakdown of Tasks

TASKS

- A. Project Manager (Michael)
 - Oversees project development
 - Help with frontend/backend development
 - Updates devlog and design doc
- B. Frontend (Emily)
 - Creates HTML templates and pages according to sitemap
 - Jinja
 - Bootstrap
- C. Backend (Yaru)
 - Write Python scripts to handle requests to modify or retrieve data from databases and APIs using SQLite
 - Flask framework
 - Integrate code from the last project for the login features

Component Map



Nav Bar Home Recipe Book Restaurants

(Dropdown)

Food Diary

Nutrition Data

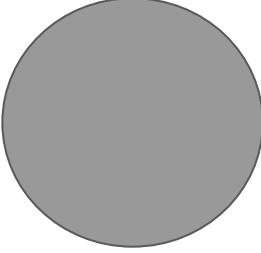
Log In/Out

Track your meals.

Cras justo odio, dapibus ac facilisis in, egestas eget quam.
Donec id elit non mi porta gravida at eget metus.

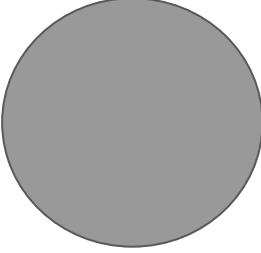
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Sign up today



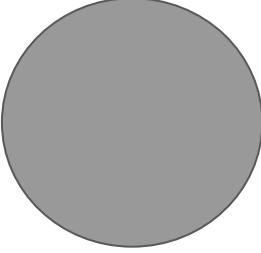
Recipe Book
Donec sed odio dui.
Etiam porta sem malesuada magna mollis euismod.

[View details >>](#)



Restaurants
Nullam id dolor id nibh ultricies vehicula ut id elit.

[View details >>](#)



Food Diary
Morbi leo risus,
porta ac
consectetur ac,
vestibulum at eros.

[View details >>](#)

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Nav Bar Home Recipe Book Restaurants Food Diary

[Log In/Out](#)

Punny Header Here

*Lorem ipsum dolor sit amet, consectetur adipisicing elit. Non
illo, alias animi iusto neque, sint corrupti? Laudantium,
dignissimos id excepturi facilis, facere saepe quasi placeat
praesentium ipsa sapiente illo molestiae?*

[FIND A RECIPE](#)

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Nav Bar Home Recipe Book Restaurants Food Diary

[Log In/Out](#)

Find a recipe

*Lorem ipsum dolor sit amet, consectetur adipisicing elit. Quisquam illo praesentium
sequi in cum, beatae maiores quae qui.*

Dish / Ingredients

Search by vv
Ingredients
Dish Name

[Search](#)

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Nav Bar

Home Recipe Book Restaurants Food Diary

Log Out

Find another recipe

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Quisquam illo praesentium sequi in cum, beatae maiores quae qui.

Dish / Ingredients

Search by vv

Search

Cilantro-Lime Shrimp Tacos

[Delish](#) || Shrimp, sour cream, hot sauce, lime, red onion, cotija cheese

Apple Roses

[Pepperidge Farm](#) || Puff pastry sheets, apricot preserves, powdered sugar

Perfect Burger Recipe

[Natasha's Kitchen](#) || Dill pickle, cheddar cheese, tomato, red onion, ground

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Nav Bar

Home Recipe Book Restaurants Food Diary

Log In/Out



Nav Bar

Home Recipe Book Restaurants Food Diary

Log In/Out

Find a restaurant

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Quisquam illo praesentium sequi in cum, beatae maiores quae qui.

Keyword / Zip Code

Search by vv
Keyword
Zip Code

Search

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Find another restaurant

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Quisquam illo praesentium sequi in cum, beatae maiores quae qui.

Ferry's

[Website](#) || 346 Chambers St, New York 10282 || Deli

Shake Shack

[Website](#) || 347 Chambers St, New York 10282 || Burgers

Dos Toros

[Website](#) || 348 Chambers St, New York 10282 || Mexican

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only able to add to most recent entry

Site Components

Nav Bar

Home Recipe Book Restaurants Food Diary

Need an account? [Register here](#)

Please sign in

Email address

Password

Sign in

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Nav Bar

Home Recipe Book Restaurants Food Diary

Have an account? [Log in here](#)

Please sign up

Email address

Password

Confirm Password

Sign up

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Add New Day's Entry

November 17, 2019 Edit

Restaurants dined at: Dos Toros

Breakfast

Chocolate chip pancakes

Nutrition facts:

Minerals: Fe, Mg, P, K, Na, Zn

Vitamins: Folate, Niacin, Riboflavin, Thiamin

Fats: 4.0 g

See More vv

Lunch

Cheeseburger
French fries

Dinner

Chicken tacos
Chips & salsa

November 14, 2019 Edit

Breakfast

Duis aute irure dolor in reprehenderit

Lunch

Duis aute irure dolor in reprehenderit

Dinner

Duis aute irure dolor in reprehenderit

Snack

Duis aute irure dolor in reprehenderit

November 13, 2019 Edit

Breakfast

grids flex based on how many meals are inputted for the day

Nav Bar Home Recipe Book Restaurants Food Diary

Log Out

New Entry

Date (Required)

Breakfast

Lunch

Dinner

Snacks

Restaurants

Add Entry

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Nav Bar Home Recipe Book Restaurants Food Diary

Log Out

Edit Entry

Delete

Date (Required)

Breakfast

Lunch

Dinner

Snacks

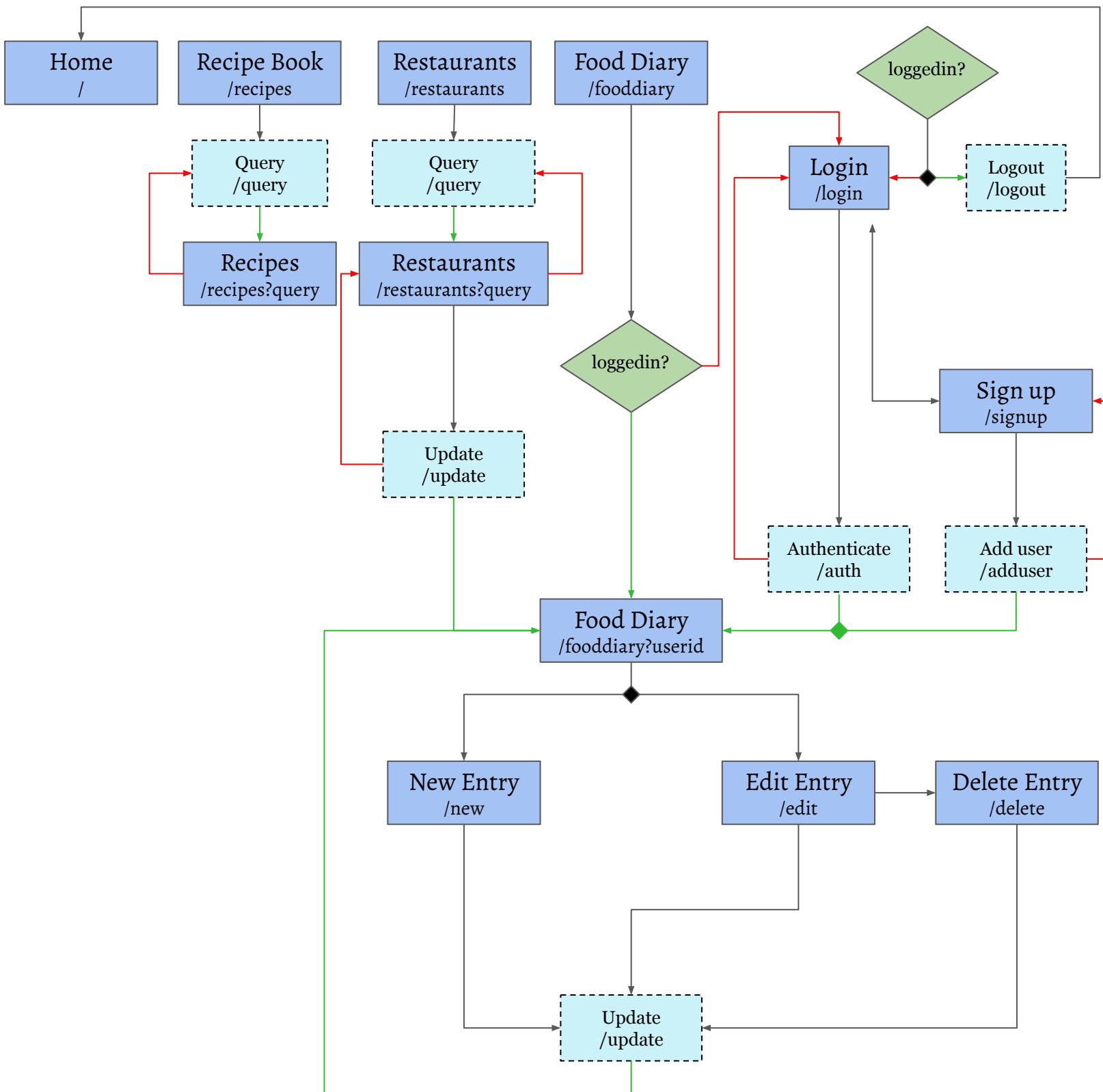
Restaurants

Update

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Site Map

NAVIGATION BAR



Database Layout

USER_TBL

Contains user credentials

| ID | Username | Password |
|-----|----------|----------|
| INT | TEXT | BLOB |

FD_TBL

Contains data for food diary

| User ID | Entry Content | Entry Date |
|---------|---------------|------------|
| INT | TEXT | TEXT |

CACHE_TBL

Stores previous query responses

| Query | Response |
|-------|----------|
| TEXT | TEXT |