

TEAM: Will Code For Food

ROSTER: Emily Zhang, Michael Lin, Yaru Luo

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
- 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

MACHINERY (includes functions, utl folder, templates.)

FRONT END (client)

BACK END (server)

Search Recipe

User searches for recipe, can specify ingredients

Query Recipe Puppy API /

Retrieve data from cache

Cache TBL

Previous stored response is used or new response from API query is stored and user receives a list of restaurants

Search Restaurant

Search by name, cuisine or location

Query Zomato API /

Retrieve data from cache

Cache TBL

Previous stored response is used or new response from API query is stored and user receives a list of restaurants

Food Diary Search

Search for food with keywords

Query FoodData Central API /

Retrieve data from cache

Cache TBL

Previous stored response is used or new response from API query is stored and user receives a list of restaurants

Create Account

User provides credentials

Modify DB

User TBL

User credentials are entered into the user table, random ID is generated, user is redirected to Food Diary.

Login

Authentication

User TBL

User provides credentials

User credentials are checked against database, if invalid, error message alert is displayed, else redirect to Food Diary

Add Food Diary entry

Modify DB

Food Diary TBL

User provides information on meals

Add entry to table if valid

Nav Bar Home Recipe Book Restaurants

(Dropdown)

Food Diary

Nutrition Data

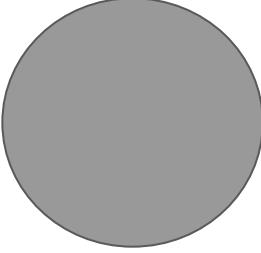
Log In/Out

Track your meals.

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

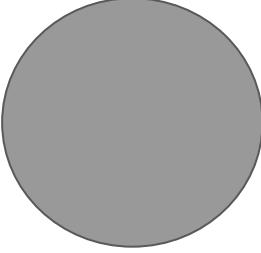
< >

Sign up today



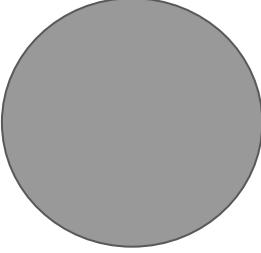
Recipe Book
Donec sed odio dui.
Etiam porta sem
malesuada magna
mollis euismod.

[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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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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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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Find another recipe

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

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



Find a restaurant

Placeholder Latin text (Lorem ipsum)

Search by
Keyword
Zip Code

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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.

<input type="text" value="Keyword / Zip Code"/>	<input type="text" value="Search by vv"/>
<input type="button" value="Search"/>	

Ferry's

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

Add to Food Journal

Shake Shack

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

Add to Food Journal

Dos Toros

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

Add to Food Journal

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only able to add to most recent entry

... or whatever is easiest to code

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

New Entry

**Date* (Required)*

Breakfast

Lunch

Dinner

Snacks

Add Entry

Edit Entry

[Delete](#)

**Date* (Required)*

Breakfast

Lunch

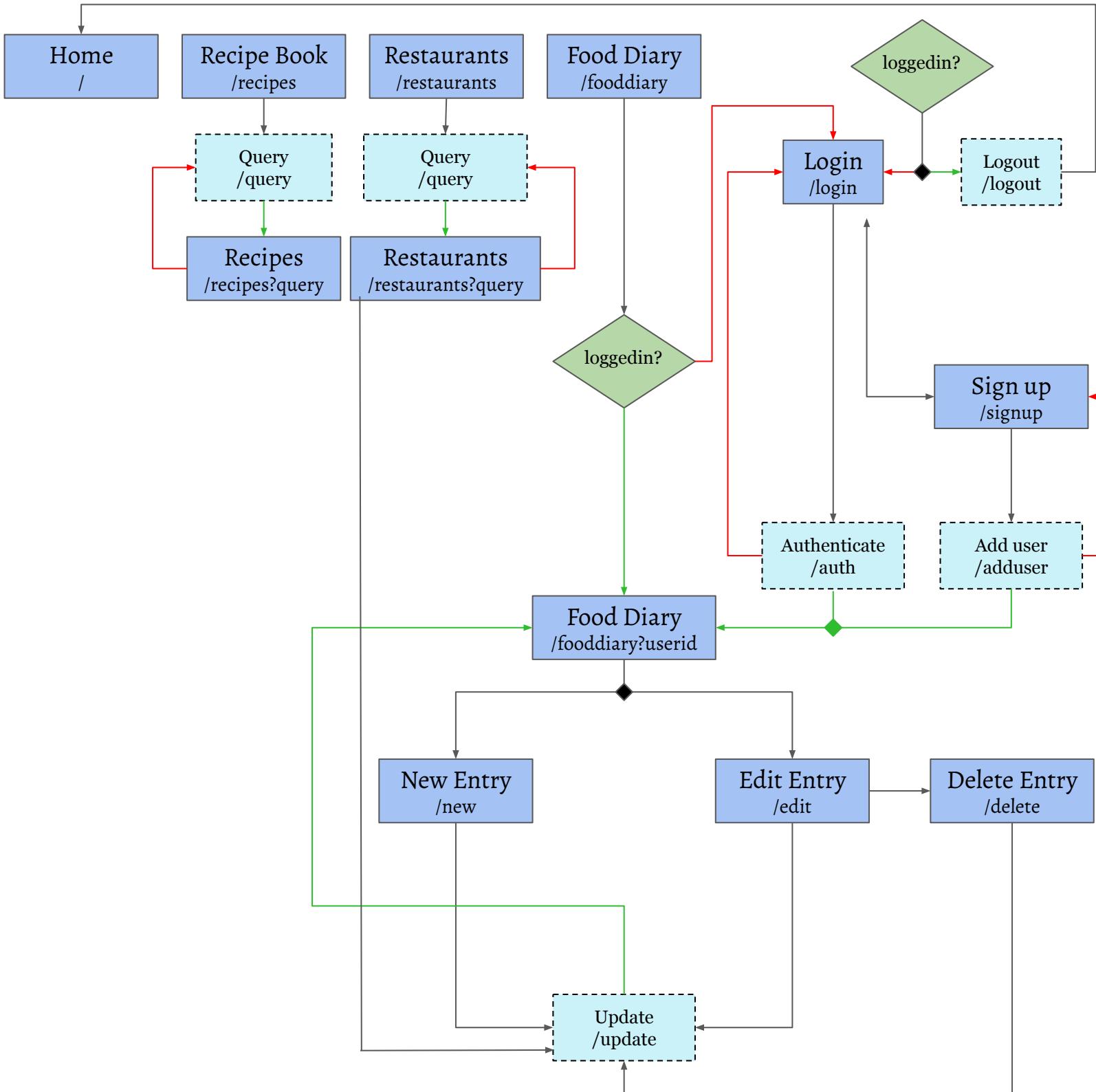
Dinner

Snacks

[Edit Entry](#)

Site Map

NAVIGATION BAR



Database Layout

USER_TBL

Contains user credentials

Username	User ID	Password	Food Diary ID
TEXT	INT	TEXT	INT

FD_TBL

Contains data for food diary

Food Diary ID	Entry Content	Entry date
INT	TEXT	TEXT

CACHE_TBL

Stores previous query responses

Query	Response
TEXT	TEXT