Team willCodeForFood - Emily Zhang, Michael Lin, Yaru Luo
SoftDev1 pd1
Project Name: MYPlatE
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
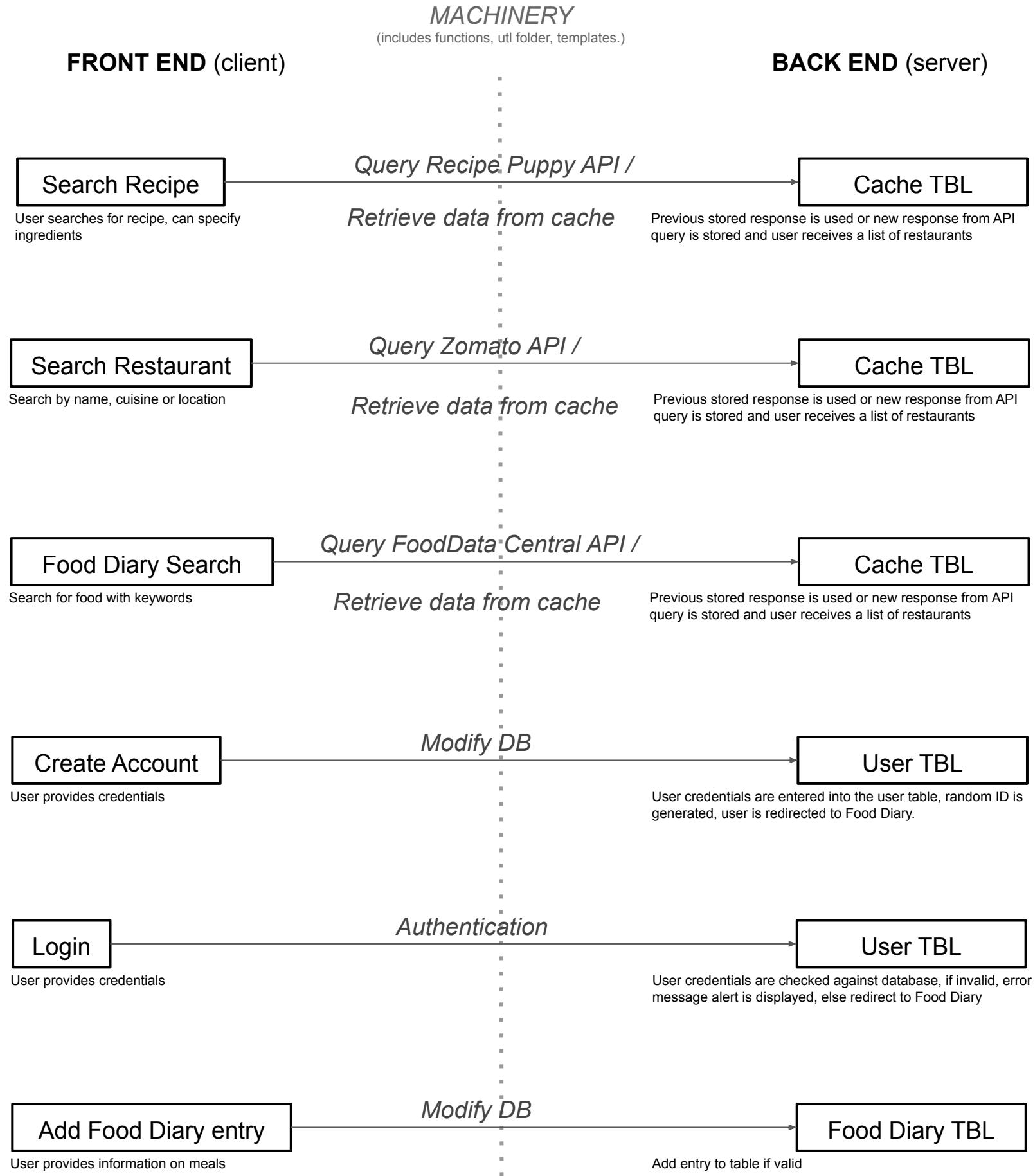
Communication App: Slack

Breakdown of Tasks

<u>TASKS</u>
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 |
User provides credentials

Authentication

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

| Add Food Diary entry |
User provides information on meals

Modify DB

| Food Diary TBL |
Add entry to table if valid

Site Components

Home   Recipe Book   Restaurants   (Dropdown)   Log In/Out
                                                    Food Diary
                                                    Nutrition Data
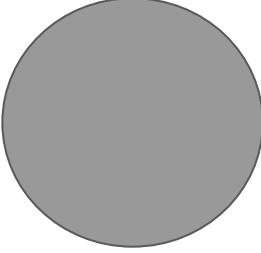
Track your meals.
Cras justo odio, dapibus ac facilisis in, egestas eget quam.
Donec id elit non mi porta gravida at eget metus.

<   >
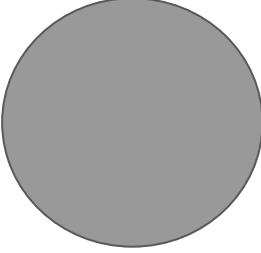
Sign up today
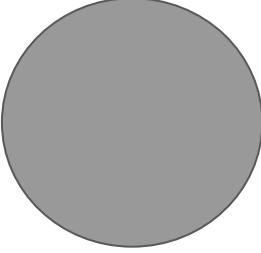
Recipe Book
Donec sed odio dui.
Etiam porta sem
malesuada magna
mollis euismod.

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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Site Components

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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Site Components

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, cotijia 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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Site Components

Home   Recipe Book   Restaurants   Food Diary   Log In/Out

Touché

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 RESTAURANT

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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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Site Components

Find another 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

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

Site Components

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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Site Components

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

Site Components

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
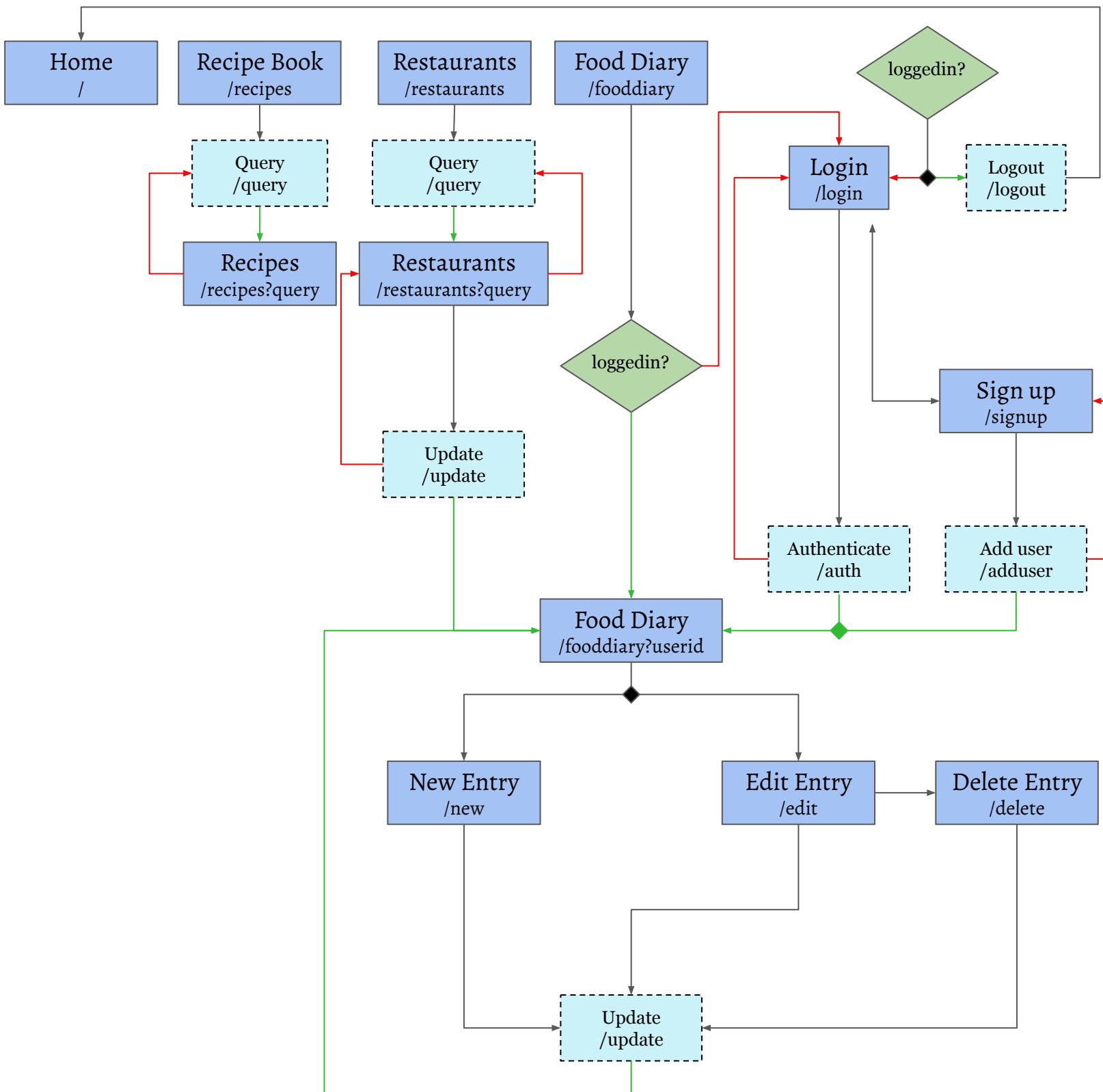
Restaurants

Update

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Site Map

Home
/

Recipe Book
/recipes

Restaurants
/restaurants

Food Diary
/fooddiary

loggedin?

Logout
/logout

Login
/login

Query
/query

Query
/query

Recipes
/recipes?query

Restaurants
/restaurants?query

loggedin?

Sign up
/signup

Update
/update

Authenticate
/auth

Add user
/adduser

Food Diary
/fooddiary?userid

New Entry
/new

Edit Entry
/edit

Delete Entry
/delete

Update
/update

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