Team Hax4Snax: Amit Narang, Peter Cwalina, Jared Asch, Maggie Zhao

SoftDev1 pd7

P #01: ArRESTed Development

2018-11-19

Note: There is no Database needed in this project, at least not for the core functionality. If we have additional time, we will probably add one to handle user accounts.

Component Map

- Front-End
    - One home page that allows users to search and view popular searches.
    - Dynamically generated pages for individual recipes and menu items
- API Request Layer
    - Make requests to Zomato and Food2Fork REST APIs, generates requests and returns certain data fields
- Flask Server and Routing
    - Handle user searches, create valid requests for APIs, parse response data, present necessary information to Jinja2 rendering engine
    - Acts as middleware and rendering engine between the front-end and the APIs.

API Write-Up

Core

I. Zomato

A. Requires an account and an API Key

B. 1000 Calls in a Day

C. How we would use this API

1. We would specifically be using the */dailymenu* field from this API, which would give us a collection of dishes that the restaurant is offering.
2. We would generate a page with the results, hyperlinking each dish to a search on our website for that dish title.

II. Food2Fork

A. Requires an account

B. 50 calls a day

C. How we would use this API

1. We would use the Food2Fork Search function. By inputting a query--either a type of food (e.g. Italian), an ingredient (e.g. Chicken), or a dish (e.g. Chicken Parm)-- we can get a list of thirty recipes for dishes matching the criteria, such as Italian dishes, dishes with chicken, or Chicken Parm recipes.
2. Specifically, we will use the *image_url, source_url, title,* and *social_rank* fields from the search result to create our feed, ranking the recipes given by the *social_rank*, displaying the title/image, and having a hyperlink to the *source_url* to get the dish.

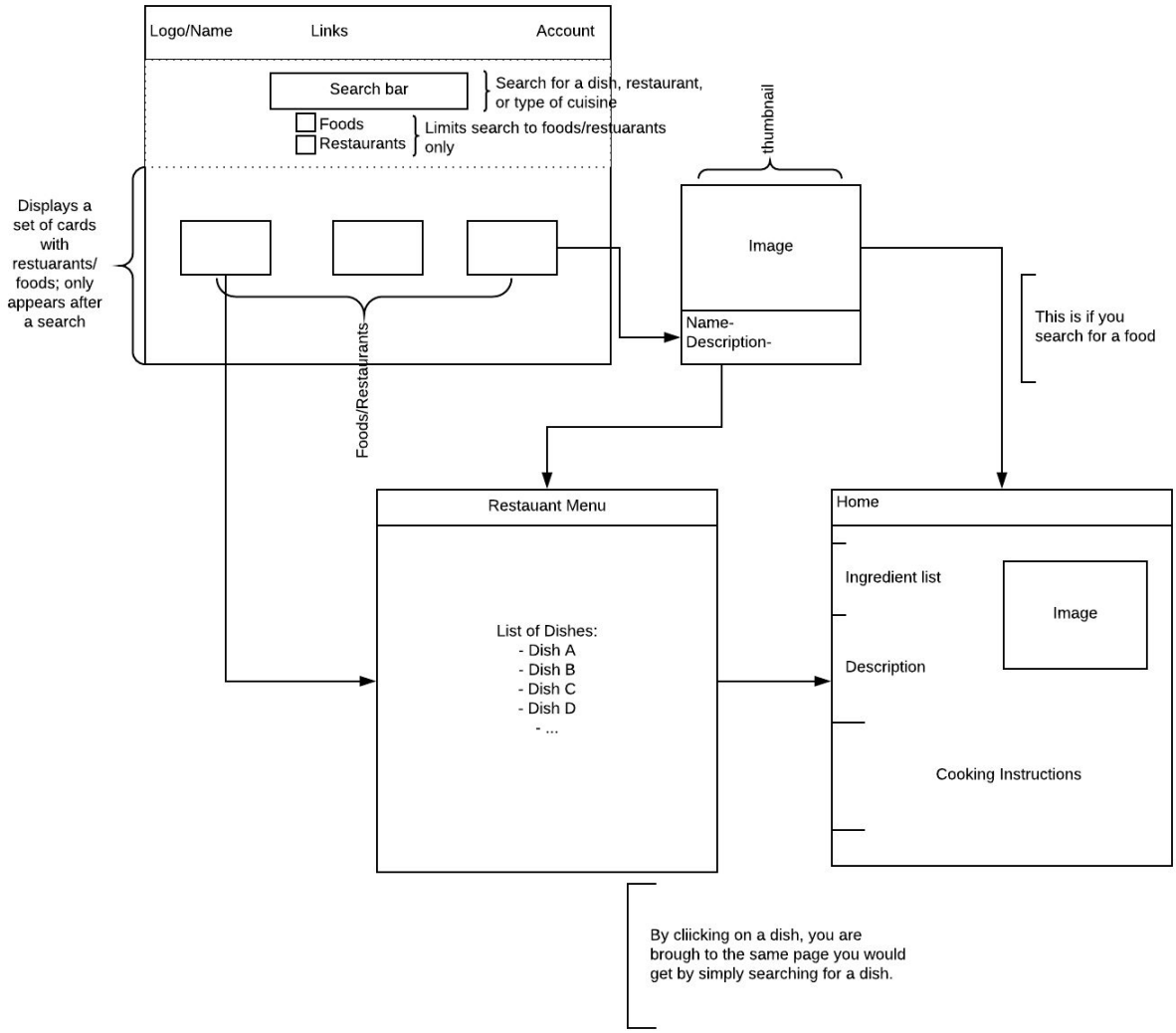
Expanded Functionality

I. Unknown API (for now)

A. How we would use this API

1. We would use this API to obtain the costs of each ingredient in the dish being searched up, so that we can find how much making a dish would cost.

Site-Map for Front-End



Task Assignments

Roles

I. Amit Narang
   A. Project Manager
   B. Assist with Flask Server and Routing

II. Jared Asch
   A. Focused on API Request Layer & Flask Server and Routing
   B. Assist with Bootstrap
   C. Specific Tasks:

1. Obtaining information from Zomato and Food2Fork APIs

III. Maggie Zhao

A. Focused on Front-End

B. Specific Tasks:

1. Creating Landing Page with the Search
2. Creating Template for Images

IV. Peter Cwalina

A. Focused on Front-End

B. Specific Tasks:

1. Creating Restaurant Menu
2. Creating Recipe Page

Specific Tasks and Deadlines

1) Core:

a) Tasks:

i) Create a Github Repo

(1) Date: 11/16/18

(2) Assigned to: Amit

ii) Write the Design Document

(1) Date: 11/21/18

(2) Assigned to: Everyone

iii) Landing Page (without search functionality)

(1) Date: 11/23/18

(2) Assigned to: Maggie

iv) Restaurant Search Result Template

(1) Date: 11/23/18

(2) Assigned to: Amit

v) Basic Flask App

(1) Date: 11/24/18

(2) Assigned to: Amit

vi) Search Functionality

(1) Date: 11/26/18

(2) Assigned to: Peter

vii) Integration of Zomato and Food2Fork APIs

(1) Date: 11/26/18

(2) Assigned to: Jared

b) Date: 11/26/18

2) Additional:

a) Tasks:

i) Create database and user account functionality

(1) Date: 11/29/18

(2) Assigned to: Peter, Amit

ii) Integration of third API and price calculation:

(1) Date: 12/1/18

(2) Assigned to: Maggie, Jared

b) Date: 12/1/18