

**Team Mango: Aryaman Goenka, Sadid Ethun, Haotian Gan**

SoftDev

P01 -- Design Doc

12/8/21

Time Spent: ??

**Concept:** Food Network Website

- Discover new recipes and restaurants
  - Recipe search bar (**Spoonacular API and Yummly API**)
  - Ingredient nutritional information hover-overs in each recipe (**Spoonacular API and OpenFoodFacts API**)
    - Food born illness info based on certain foods (**FDA API**)
    - Images for each ingredient in recipes are provided by the **OpenFoodFacts API**
  - Save **Spoonacular API**'s recipes to your personal library. Create your own versions of those recipes
  - Social Media-esque site: your favorite recipes are publicly viewable, you can make posts about what you've made recently and receive likes and comments. Each user has a page similar to Instagram's setup.
  - Restaurant suggestions based on cuisine or location using the **Documenu API** (Search random based off from recipes in your library and your search history)

**All APIs Used:**

- **Documenu (Search for restaurants by cuisine)**
- **Spoonacular API (Recipe search)**
- **Yummly (Recipe Search)**
- **OpenFoodFacts (Food images)**
- **FDA API (Food Reports/Health Info)**

**Site Components** (APIs are not final)

- Login and register pages (modified from P0 as needed)
  - Verify user exists using flask form or confirm new username and password
  - Give cookies to keep a session running
  - Client-side verification that username/password meet constraints
  - After, redirect to Main/Landing Page
- Main Page
  - Nav Bar to navigate to different sections
  - Blog Section (modified from P0 as needed)
    - Make posts about food
    - Searchable
- Find Food Facts
  - Search by:
    - Food Item
    - Food born illness

- Display nutritional info as well as image on food item
    - Maybe link to specific info on specific ingredients
- Find Recipes
  - Search by:
    - Diet Restrictions
    - Cuisine
- Find Restaurants (maybe if time and ability allows)
  - Search by:
    - Cuisine
    - Menu Item
    - Location
      - Key words and cities
- Profile Page
  - Posts
    - Your posts and then ones you have commented on
  - Personal Information
    - Favorite cuisine, diet etc.
  - Saved Recipes

## **DBs (SQLite)**

- User DB
  - One Entry per User
  - Values: Username, Password
- Specific User Data
  - Foreign Keys Referencing to User DB
  - DB for specific user data like preferred cuisine, diet, measurements, etc.

## **Roles**

- Aryaman Goenka (PM): DB, Flask Routing, Find food facts function
- Sadid Ethun: Html, Bootstrap, Find restaurants function
- Haotian Gan: Find Recipes/Find restaurants function

## **Site Map**