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Ahmed
Soft Dev pd8
Task the Second: The Plan
2018-12-06

TUNED RECIPES

OVERVIEW

Tuned Recipes is a website that provides recipes tailored to the user's preferences. Based on the recipe's tags and genre, the user will be recommended a few songs to listen to as they cook. If the user is registered, their preferences will be saved for future use. While registered users may add recipes, guests will only be able to view recipes and listen to recommended music.
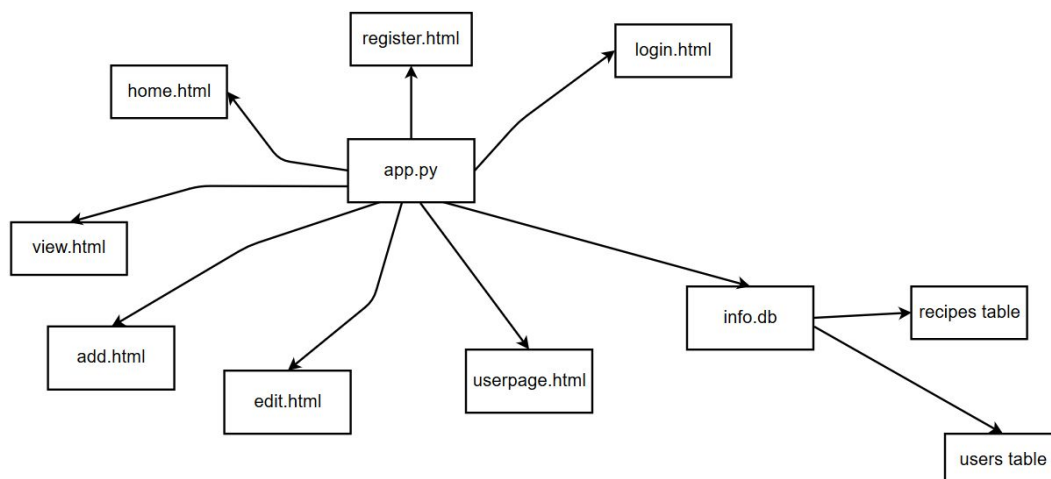
Front End Framework: Bootstrap

DATABASE SCHEMA

User Information

	User	Password	Preferences
Data Type	Text primary key	Text	List

Recipes

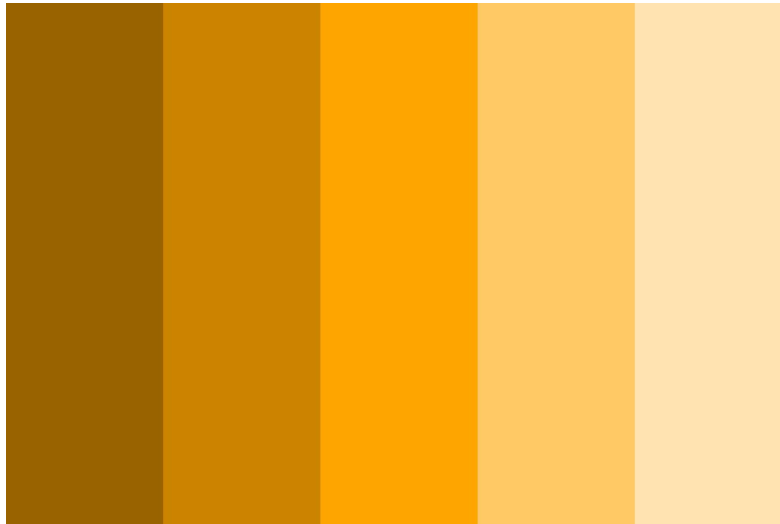|	User	Title	Ingredients	Instructions	Images	Music
Data Type	Integer primary key	Text	List	Text	Link	Link

COMPONENT MAP

SITE MAP
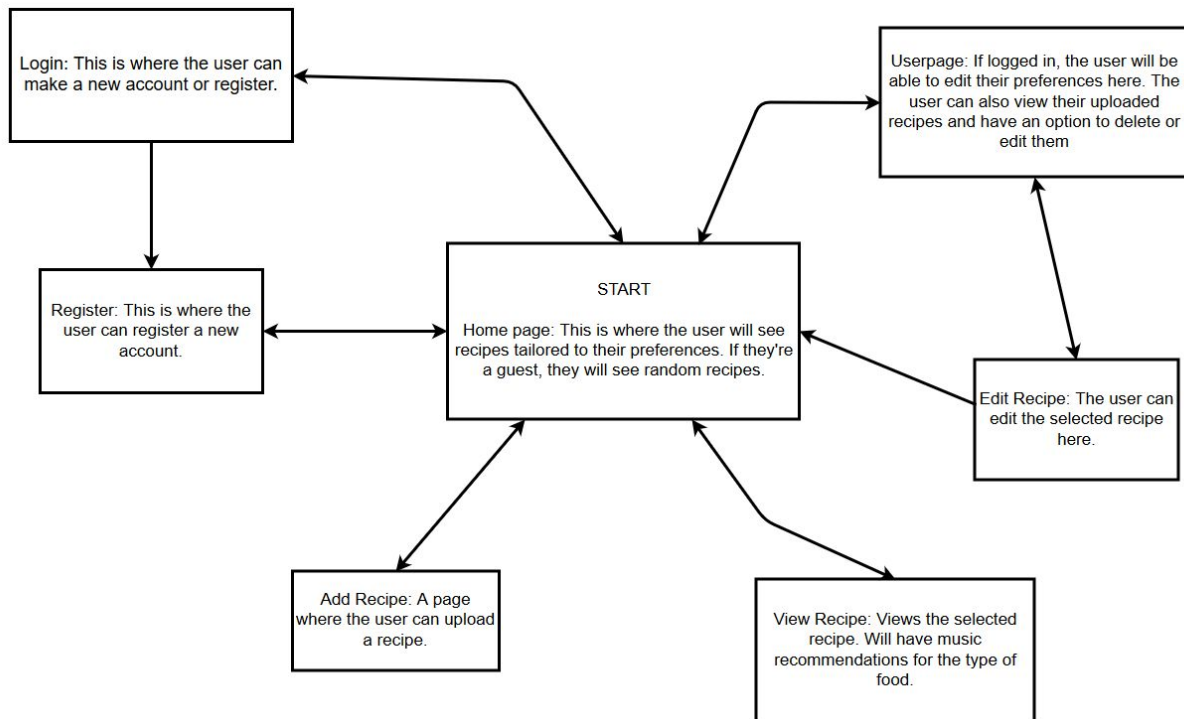
Explanation of Database, Component Map, and Sitemap

1. If a user is not logged in, they can only access the homepage, login page, and register page. They can also view trending recipes, highly rated recipes, and a few random recipes obtained from the Food2Fork API.
2. When a user registers, they will input their preferences based on their dietary restriction, custom tags, and favorite ingredients, flavors, and meals. They will then be directed to a personalized homepage based on the user's choices.
3. Within the home page, the user can choose to look at recipes belonging to a single preference (i.e if the user likes beef, they can choose to only view recipes with beef).
4. When the user selects a recipe, they are directed to the recipe page, which includes a list of ingredients and their measurements, instructions, and recommended music.
5. From the homepage, the user can select the "Add recipe" button to upload their own recipe. In the directed page, the user will input the recipe name, ingredients with measurements, instructions, recommended music, along with optional pictures.
6. Users will also be able to edit their recipes in the edit recipe page, but only their own.

APIs
➔ Food2Fork (https://www.food2fork.com/about/api) → provides recipe data
➔ RecipePuppy (http://www.recipepuppy.com/about/api/) → provides recipe data
➔ TheMealDB (https://www.themealdb.com/api.php) → provides recipe data
➔ LastFM (https://www.last.fm/api) → provides the music data

COLOR PALETTE

TO-DO LIST

1. Create the design document
2. Create user and recipes databases
3. Create pages that list recipes and allows the user to view them
4. Add songs to the recipes
5. Create user sign in and sign up pages
6. Create user page for editing preferences
7. Add user preferences and make recipes reflect them
8. Create add and edit or create recipes pages
9. Update user pages for uploaded recipes

ROLES

Project Manager - Tania Cao
  ➔ Make sure the group is consistently working on the project
  ➔ Handle coding tasks as necessary for both backend and front end.
  ➔ Update and maintain the design document
  ➔ Make sure that the group is adhering to the design document
  ➔ Update and maintain the devlog

Database / Backend Technicians - Mohtasim Howlader and Johnson Li and Hasif Ahmed
  ➔ Create database system following the data schema outlined above in sqlite3
  ➔ Create functionality to access, add and modify the database
  ➔ Make the database compatible and accessible with the frontend in app.py

Frontend Technicians - Hasif Ahmed and Johnson Li
  ➔ Construct HTML web pages that will process user input in the backend
  ➔ Render the web pages when requests are sent
  ➔ Make the frontend compatible with the backend with jinja3 for flask functionality