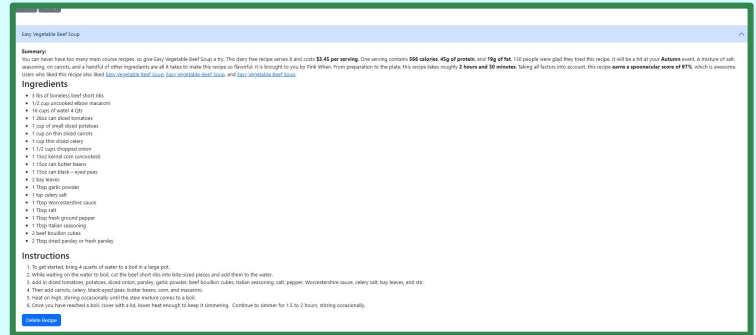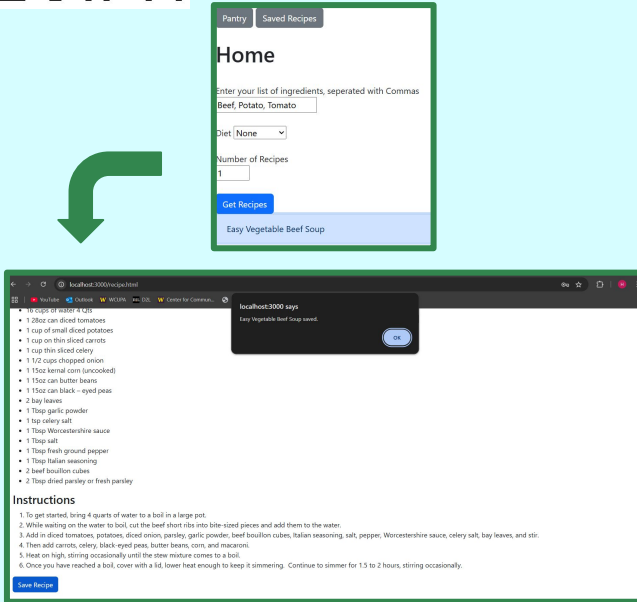# SmartRecipe

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Motivations:

SmartRecipe seeks to solve the issue of figuring out what to eat tonight with the food one has. In tandem with the Spoonacular API, SmartRecipe aims to deliver recipes to users utilizing the ingredients within their pantry, simplifying the recipe selection process and reducing stress after a long day at work.

CloudLab

User

User adds ingredients they want in the recipe and sends requests to the backend

Spoonacular API

Source of recipes requested by user

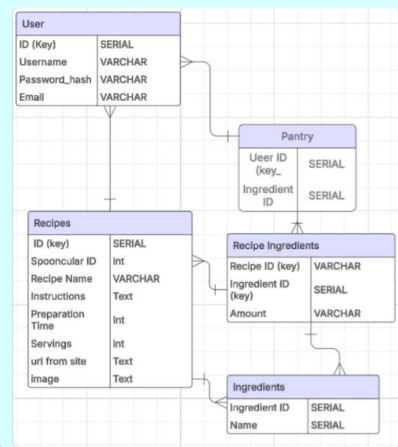### Docker Network

Frontend

Docker container with an Nginx server serving static files to the user with Bootstrap styling

Backend

Docker container with an Express server manages routes and Spoonacular API and Database requests

Database — PostgreSQL

User
ID (Key)	SERIAL
Username	VARCHAR
Password_hash	VARCHAR
Email	VARCHAR

Pantry
| User ID (key) | SERIAL |
| Ingredient ID | SERIAL |

Recipes
ID (key)	SERIAL
Spoonacular ID	int
Recipe Name	VARCHAR
Instructions	Text
Preparation Time	Int
Servings	int
url from site	Text
image	Text

Recipe Ingredients
Recipe ID (key)	VARCHAR
Ingredient ID (key)	SERIAL
Amount	VARCHAR

Ingredients
| Ingredient ID | SERIAL |
| Name | SERIAL |

Features:

- User Account Creation/Auth.
- Pantry/Ingredient Tracker
- Recipe Search based on diet type and ingredients
- Ability to save recipes
- Fully Dockerized Stack