

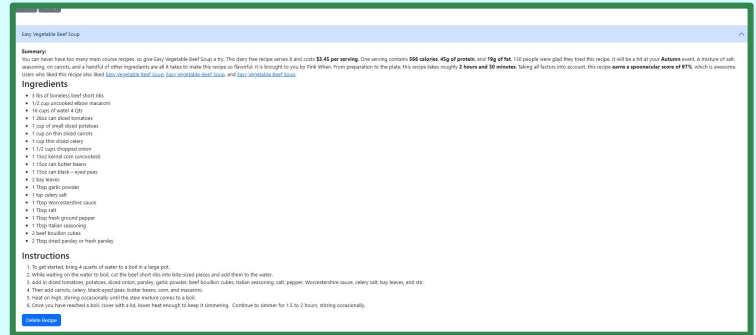
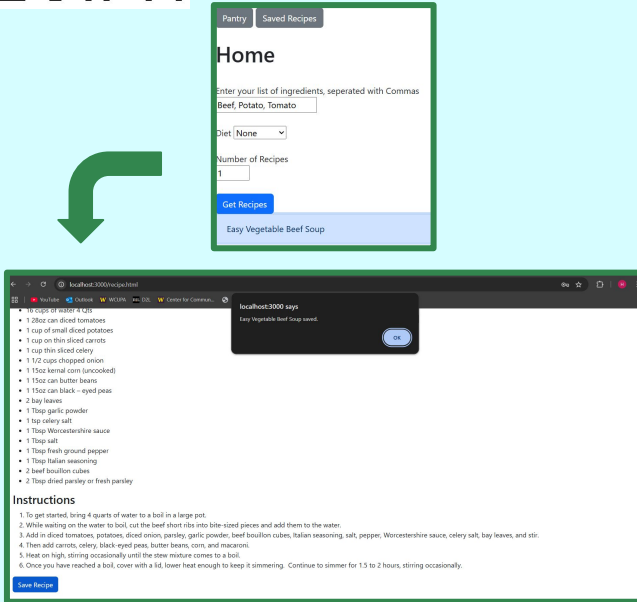


SmartRecipe

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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.



User

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

Spoonacular API



Source of recipes requested by user

CloudLab

Docker Network



Frontend



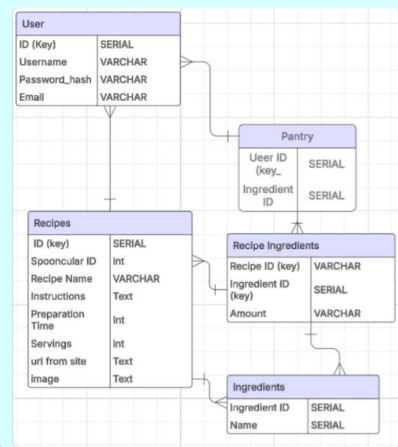
Docker container with an Nginx server serving static files to the user with Bootstrap styling

Backend



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

Database



Features:

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

```
nguyen@docker:~/CS488/Project5$ docker compose up
Network cs488project5_default Created
Container smartrecipe-db Created
Container smartrecipe-frontend Created
Container smartrecipe-app Created
Attaching to smartrecipe-app, smartrecipe-db, smartrecipe-frontend
smartrecipe-db | PostgreSQL Database directory appears to contain a database, skipping initialization
smartrecipe-frontend | /docker-entrypoint.sh: /docker-entrypoint.d/ is not empty, will attempt to perform configuration
smartrecipe-frontend | /docker-entrypoint.sh: Looking for shell scripts in /docker-entrypoint.d/
smartrecipe-frontend | /docker-entrypoint.sh: Launching /docker-entrypoint.d/00-listen-on-ipv6-by-default.sh
smartrecipe-frontend | 00-listen-on-ipv6-by-default.sh: info: Getting the checksum of /etc/docker/daemon.json
smartrecipe-frontend | 00-listen-on-ipv6-by-default.sh: info: Enabled listen on IPv6 in /etc/docker/daemon.json
smartrecipe-frontend | /docker-entrypoint.sh: Launching /docker-entrypoint.d/10-listen-on-ipv4-by-default.sh
smartrecipe-frontend | /docker-entrypoint.sh: Launching /docker-entrypoint.d/20-envsubst-on-templates.sh
smartrecipe-frontend | /docker-entrypoint.sh: Configuration complete; ready for start up
2025/04/30 00:23:00 [notice] 181: using the "md" event method
2025/04/30 00:23:00 [notice] 181: nginx/2.2.7
2025/04/30 00:23:00 [notice] 181: built by gcc 12.2.0 (Debian 12.2.0-14)
2025/04/30 00:23:00 [notice] 181: OS: Linux 5.15.0-136-generic
2025/04/30 00:23:00 [notice] 181: portctl:DLINK/RTL8125: 1048576:1048576
2025/04/30 00:23:00 [info] 181: starting PostgreSQL 15.12 (Debian 15.12-1.pgdg20u1) on db_54-pc-linux-gnu, compiled by gcc (Debian 12.2.0-14) 12.2.0, 64-bit
2025/04/30 00:23:00 [notice] 181: start worker process 20
2025/04/30 00:23:00 [info] 181: listening on IPv4 address '0.0.0.0', port 5432
2025/04/30 00:23:00 [info] 181: listening on IPv6 address '::', port 5432
2025/04/30 00:23:00 [notice] 181: start worker process 30
2025/04/30 00:23:00 [notice] 181: start worker process 32
2025/04/30 00:23:00 [info] 181: listening on unix socket '/var/run/postgresql/.s.PGSQL.5432'
2025/04/30 00:23:00 [info] 181: database system was shut down at 2025-04-30 00:23:10 UTC
2025/04/30 00:23:00 [info] 181: LOG: database system is ready to accept connections
smartrecipe-app | Server running on port 4000
smartrecipe-app | Connected to PostgreSQL, database successfully!
```