Beta Presentation
Enhanced Shopping Experience Using AI

The Capstone Experience

Team Meijer
Matthew Crandall
Zachary Gage
Chirag Rudrangi
Cameron Schwartz
Tatiana Voegerl

Department of Computer Science and Engineering
Michigan State University
Fall 2023
Project Overview

• Make it easier for customers to find recipes that they will like

• Create custom recipes based on dietary preferences and purchase history

• Contained in a web application
System Architecture

Customers

Web Browser

Web Application

Next.js Frontend

Meijer Ordering API

Node.js Backend

Microsoft Azure

SQL Database

OpenAI

GPT-4
Home Screen
Recipe Modal

Scrambled Eggs with Spinach and Feta

**Ingredients**
1. Large eggs: 4
2. Spinach: 1 cup
3. Feta Cheese: 0.5 cup
4. Milk: 0.5 cup
5. Butter: 1 tbsp
6. Salt: 0.5 tsp
7. Black pepper: 0.5 tsp

**Instructions**
1. Crack the eggs into a bowl, add milk and whisk until the yolk and whites are fully integrated.
2. Season with salt and black pepper.
3. Preheat a non-stick pan over medium heat.
4. Melt the butter in the pan and ensure it coats the entire pan.
5. Add the eggs to the pan. Let them cook undisturbed until they start to set around the edges, about 1-2 minutes.
6. Start to stir the eggs with a spatula, pushing it from the edges to the center. Pause for a bit to allow the eggs to set, then stir again.
7. Repeat this process until the eggs are mostly cooked but still slightly runny, then remove from heat.
8. Stir in the spinach and feta cheese, allowing the residual heat to wilt the spinach and melt the cheese.
9. Serve the Scrambled Eggs with Spinach and Feta immediately. Enjoy!

Add Ingredients To Cart
Cart

Your Cart

7 Items

- Poblano Pepper
  - 1 at $0.66 each
  - $0.66

- Spinach
  - 1 at $1.69 each
  - $1.69

- Butternut Squash
  - 1 at $3.23 each
  - $2.09
  - Savings ($1.14)

- Eggplant, Large
  - 1 at $1.29 each
  - $1.29

- Meijer Feta Cheese Crumbles, 4 oz
  - 1 at $2.89 each
  - $2.89

Order Summary

- Item Total: $23.34
- Pickup Fee: $4.95
- Bottle Deposit: $0.00
- Taxes: $0.00
- Subtotal: $28.29
- mPerks: ($0.00)
- Sales and Specials: ($1.14)
- Total Savings: -$1.14
- Total: $27.15

Select A Store

Pickup
Delivery
User Dashboard
What’s left to do?

• Features
  ▪ Displaying saved recipes on user dashboard

• Stretch Goals
  ▪ Featured recipes page
  ▪ Generating initial meal based on time of day

• Other Tasks
  ▪ Enhance UI
    ○ Generator
    ○ Recipe Card
    ○ Dashboard
  ▪ General bug fixes
Questions?