

UW Smart Meal Planner

Creative

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The image shows a smartphone displaying the 'UW SMART MEAL PLAN' app. The screen features a yellow-to-white gradient background. At the top center is a logo consisting of a fork, a plate with 'UW', and a knife. Below the logo, the text 'SMART MEAL PLAN' is displayed in bold, uppercase letters. At the bottom of the screen are two buttons: 'Sign up with email' and 'or use social sign up'. To the left of the phone, there is a separate window showing a sign-in screen for the University of Waterloo, prompting for a student number, email, and password. To the right, another window shows a sign-up screen for the 'WATERLOO WARRIOR'S' meal plan, prompting for a student number, email, and password.

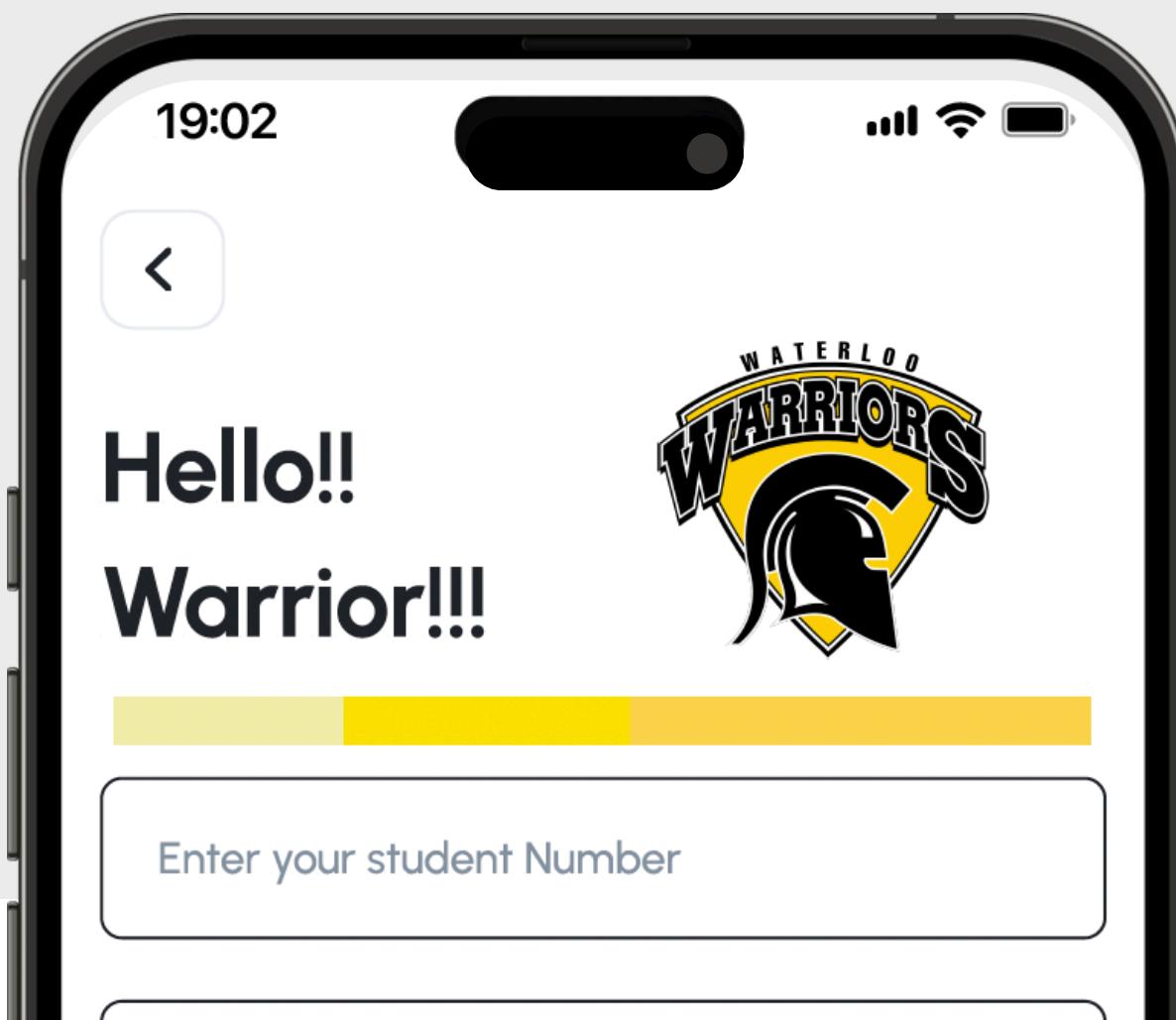
WELCOME



Introduction

The Problem

- University students struggle to manage their meal plan funds due to a lack of integrated budgeting tools. Most meal plans offer no visibility into spending behavior.



Problem Statement

Why It Matters:

- Students run out of funds mid-semester.
- Leads to poor nutrition, financial stress, and academic distractions.
- Current tools are inconvenient and lack detailed insights.



Key Insights from interviews finding

01

Overspending is common:

Small daily purchases add up; most don't monitor regularly.

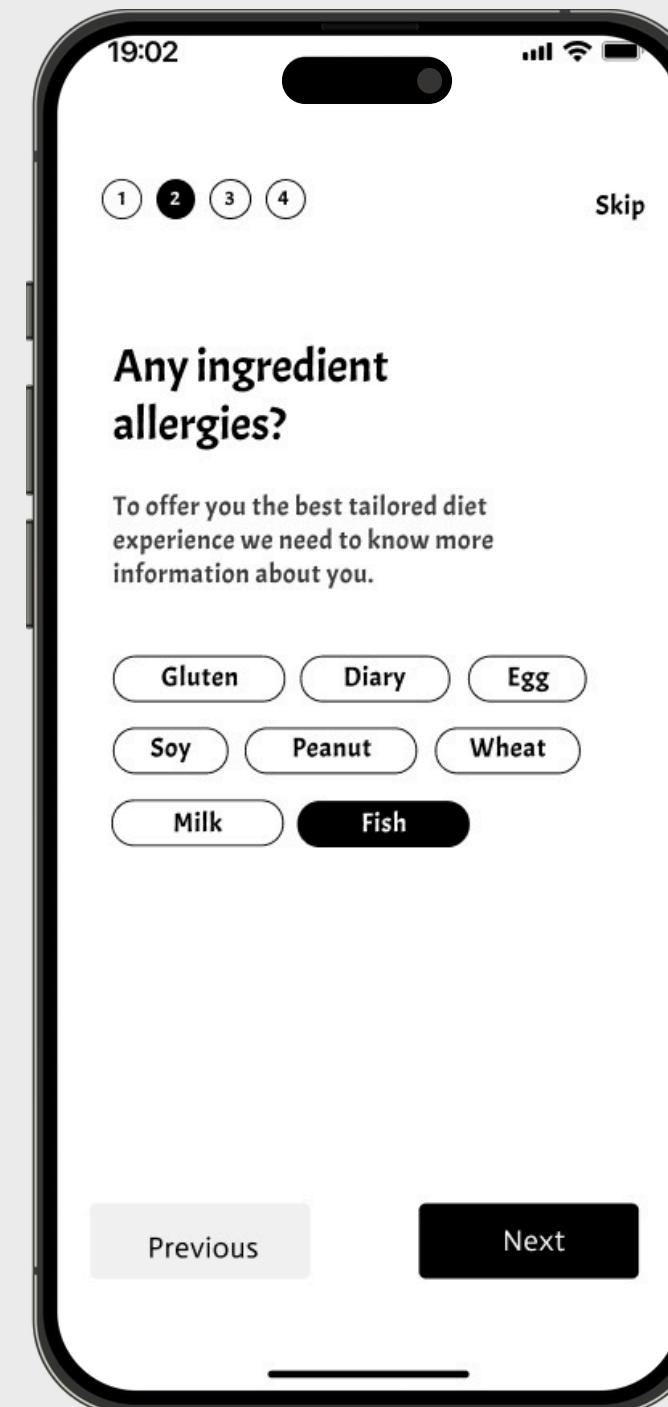
03

Current tools are frustrating:

The UW Portal is not user-friendly or detailed.

"Convenience always wins when I'm hungry."

– Eric



02

Poor planning:

Students lack time and habits for meal prep or budgeting.

04

Strong interest in automation:

Students want easy-to-use tools like banking apps with alerts and recommendations.

"I never know where my money goes." – Ent

Design process overview

low fi prototype (chosen idea from 3 ideas)



The low-fi prototype illustrates a user flow through three main screens of an AI meal planner app:

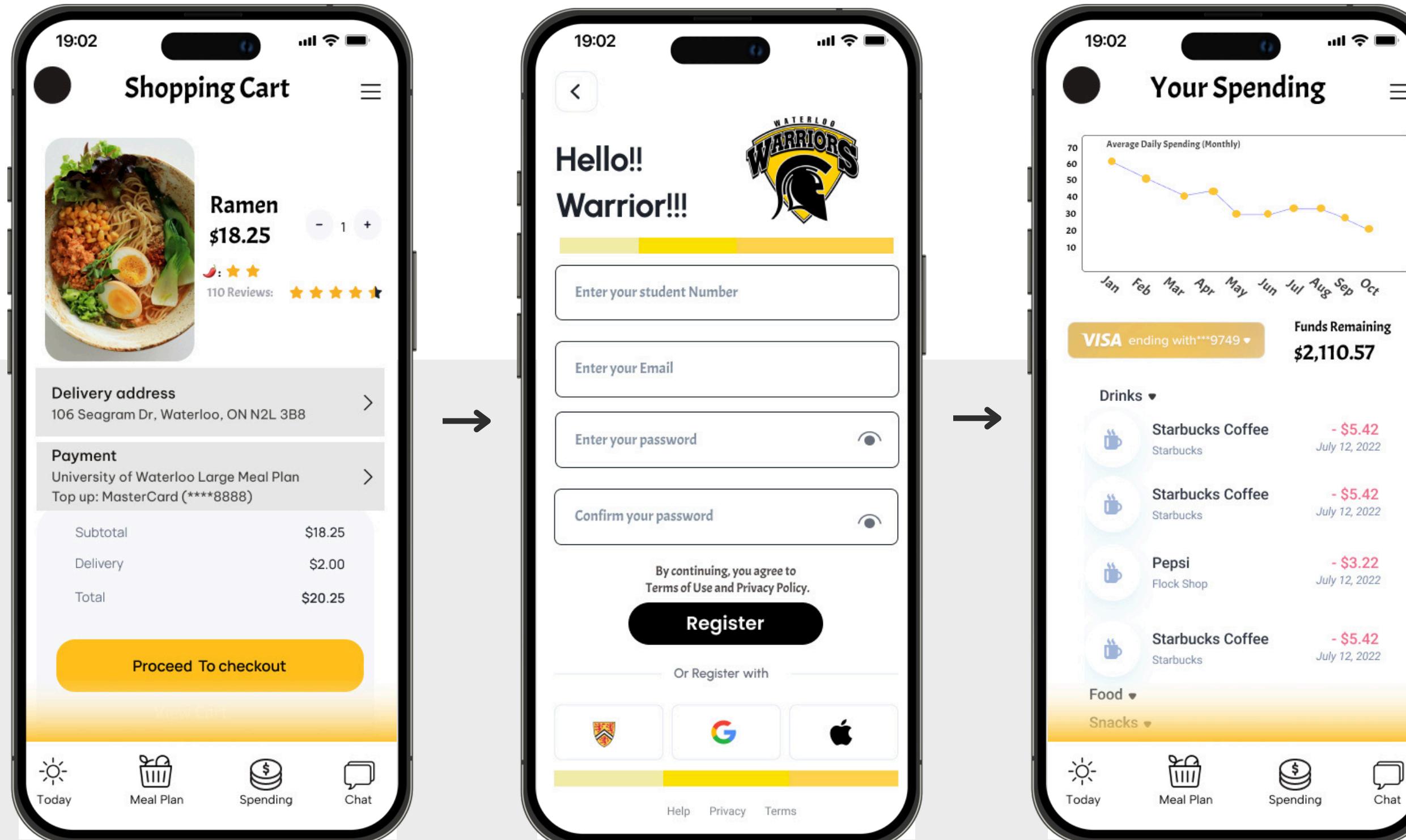
- Home Screen:** Displays "Hello!! Dan" and navigation tabs for "Journal" and "Favorites". It shows "Weekly Progress" with calorie count (1,284) and macronutrient breakdown (29% Fat, 65% Pro, 85% Carb). It also displays "Latest Measurements" for weight (72.4 Kg, 21% Fat Mass) and calories (1,548 Cal, 89% Goal).
- Total spending Screen:** Shows "Total spending" of \$284 with breakdowns for Breakfast (30%), Lunch (60%), and Dinner (87%). A message encourages users to "Keep the pace! You're doing great." Below this are two images of meals: a salmon dish and a bowl of rice and vegetables.
- Chat Screen:** Labeled "Your personal nutritinist", it shows a conversation between the user and an AI assistant. The user says "Let's get lunch. Do you like what's today?". The AI responds "Yes! I love it! I'm enjoying food more than ever." The screen includes standard messaging controls for camera, microphone, and message input.

A vertical label "AI meal planner" is positioned to the left of the first screen.



Keys insights from usability testing

UW smart meal planner



- Budget tracking & categorization
- Transaction history
- Meal plan integration

Should Have:

- Budget goal setting
- Expense comparisons

Could Have:

- AI meal suggestions
- Barcode scanning

Excluded:

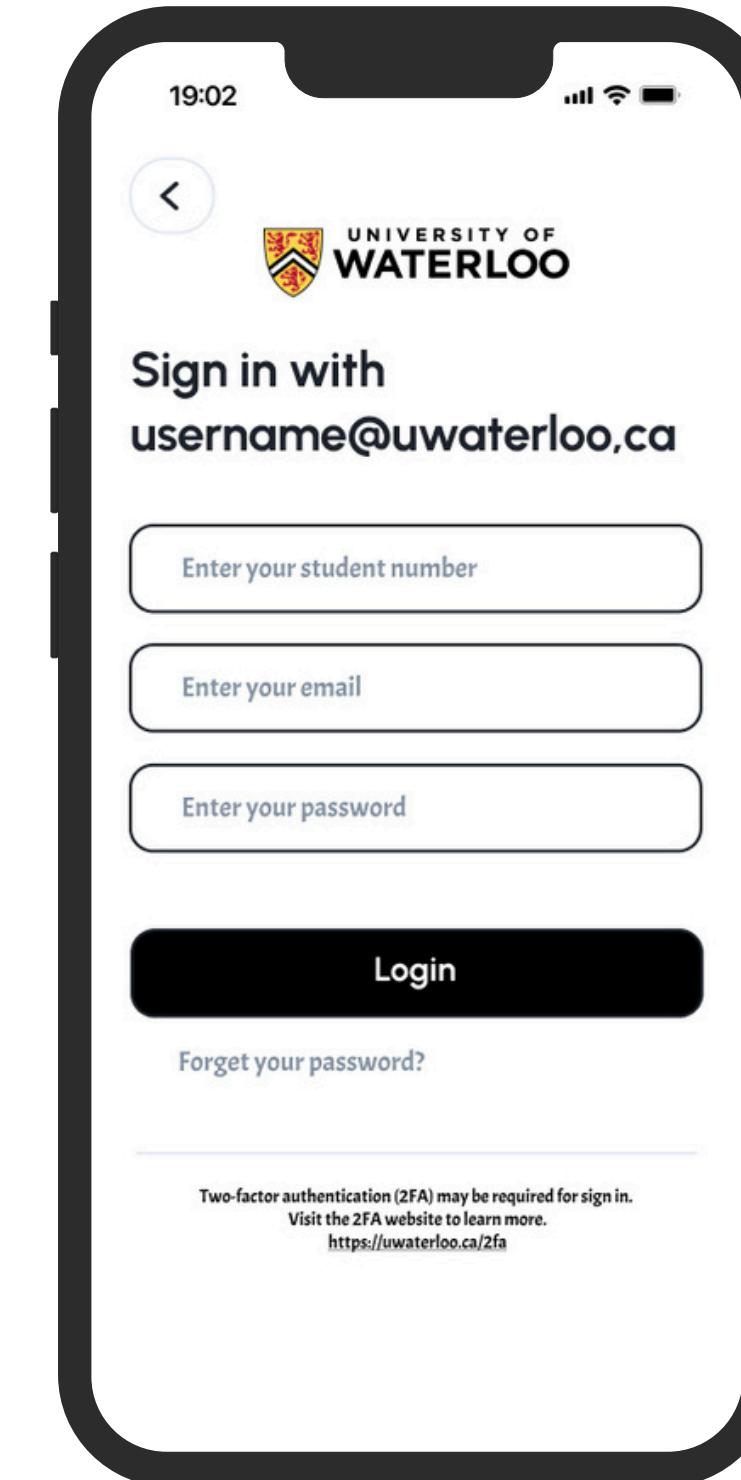
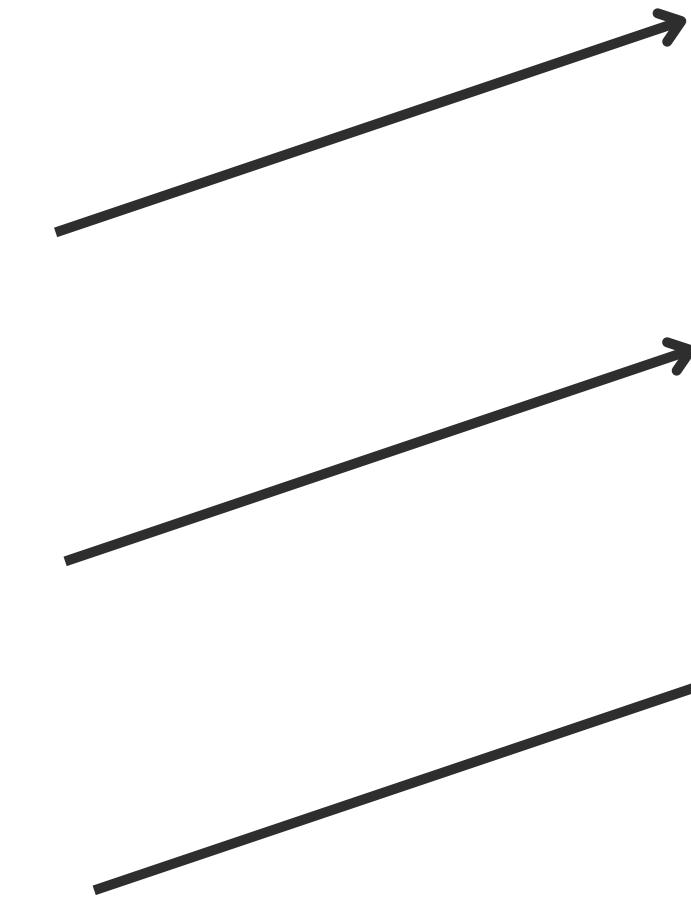
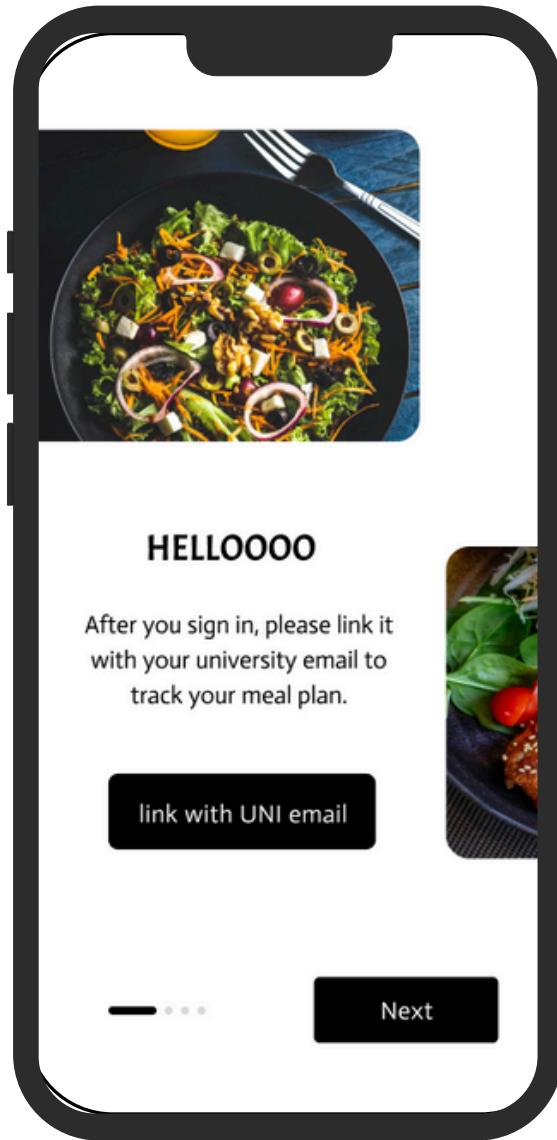
- Bank integration
- Calorie tracking
- Social features

Iterations made on my prototype based on testing

01

Problem: Unclear icons & layout

low fi prototype of the chosen idea



High-fidelity prototype

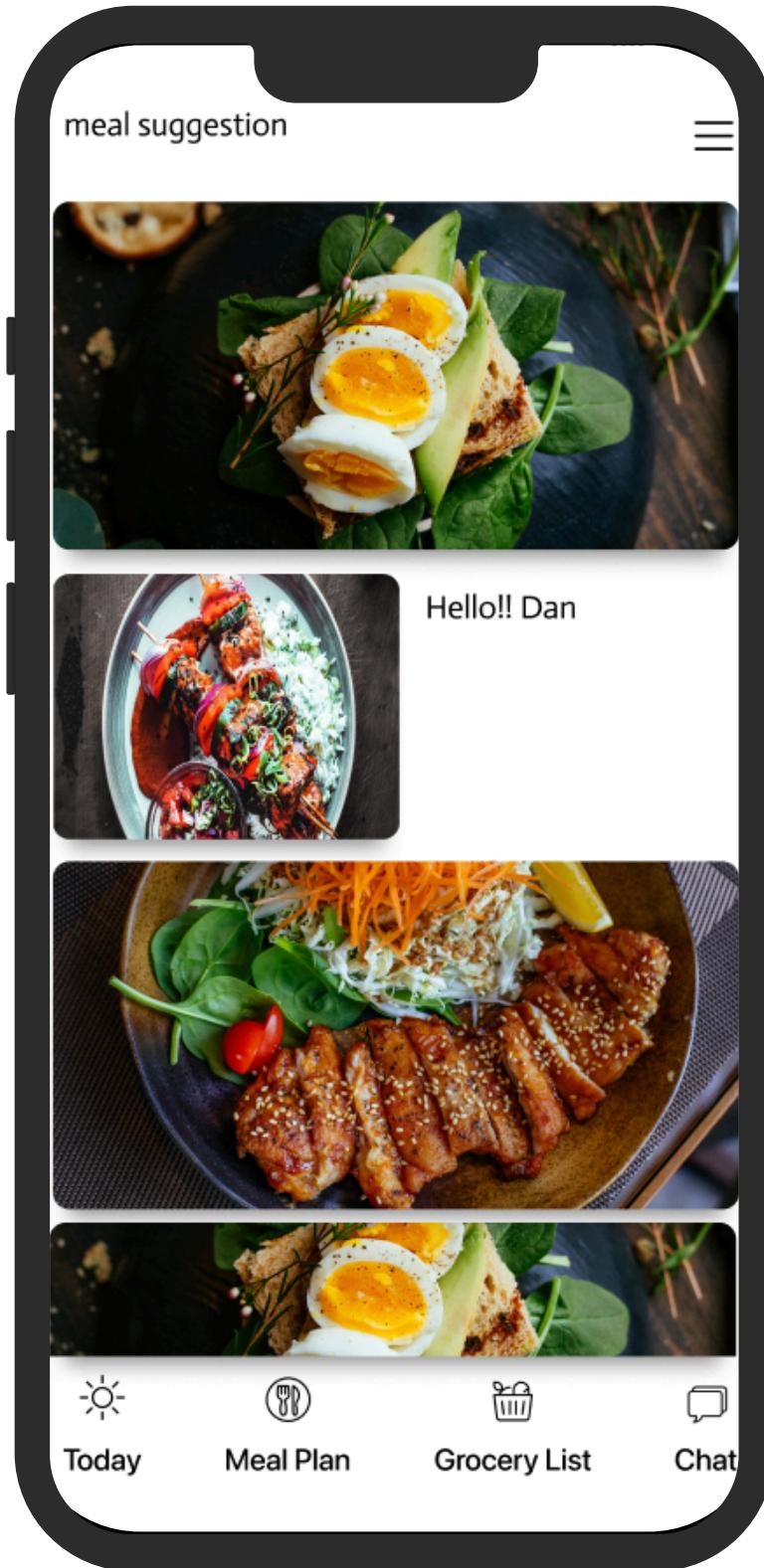
Fix: Added tooltips



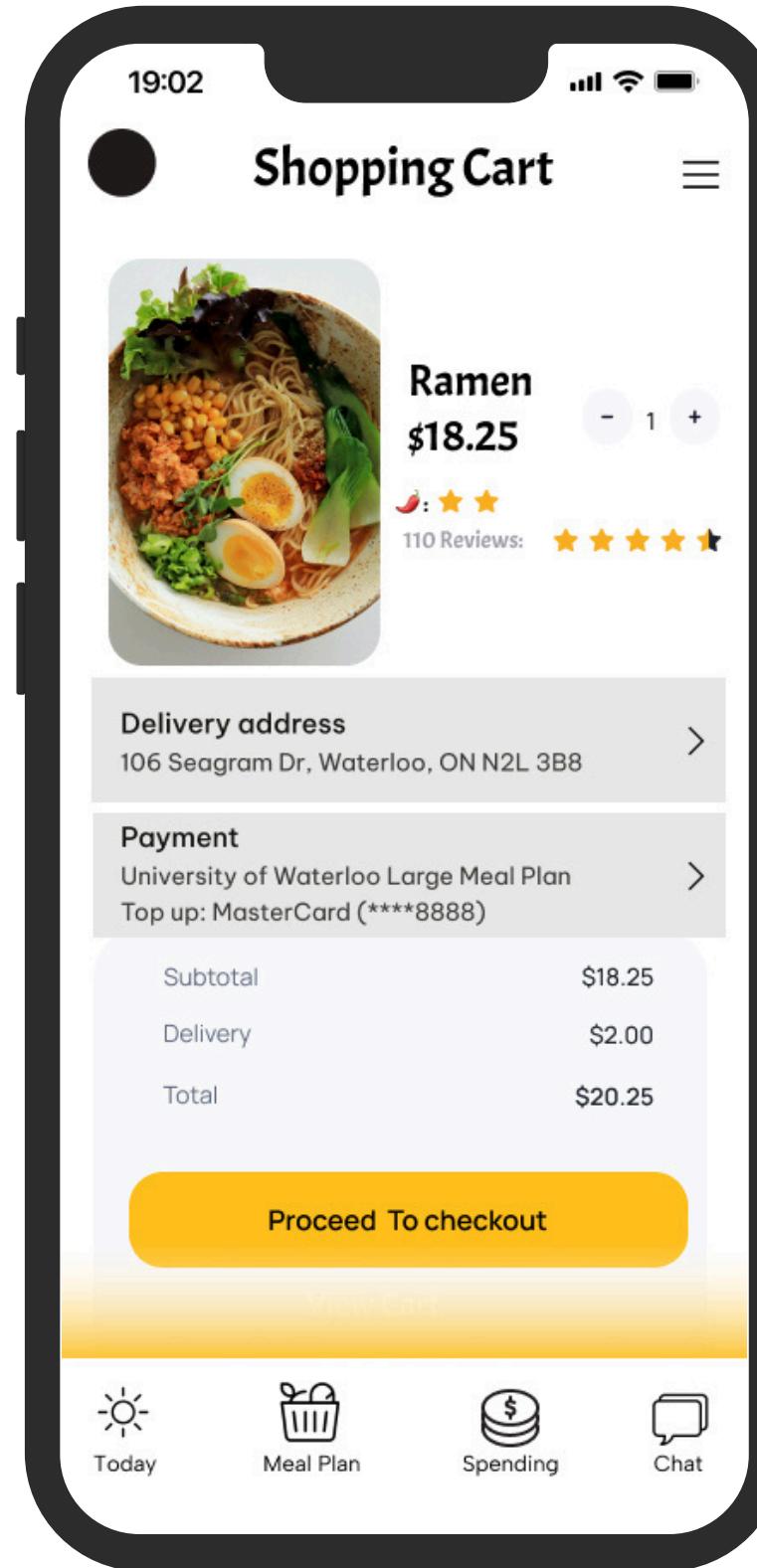
02

Problem: Missing nutrition info

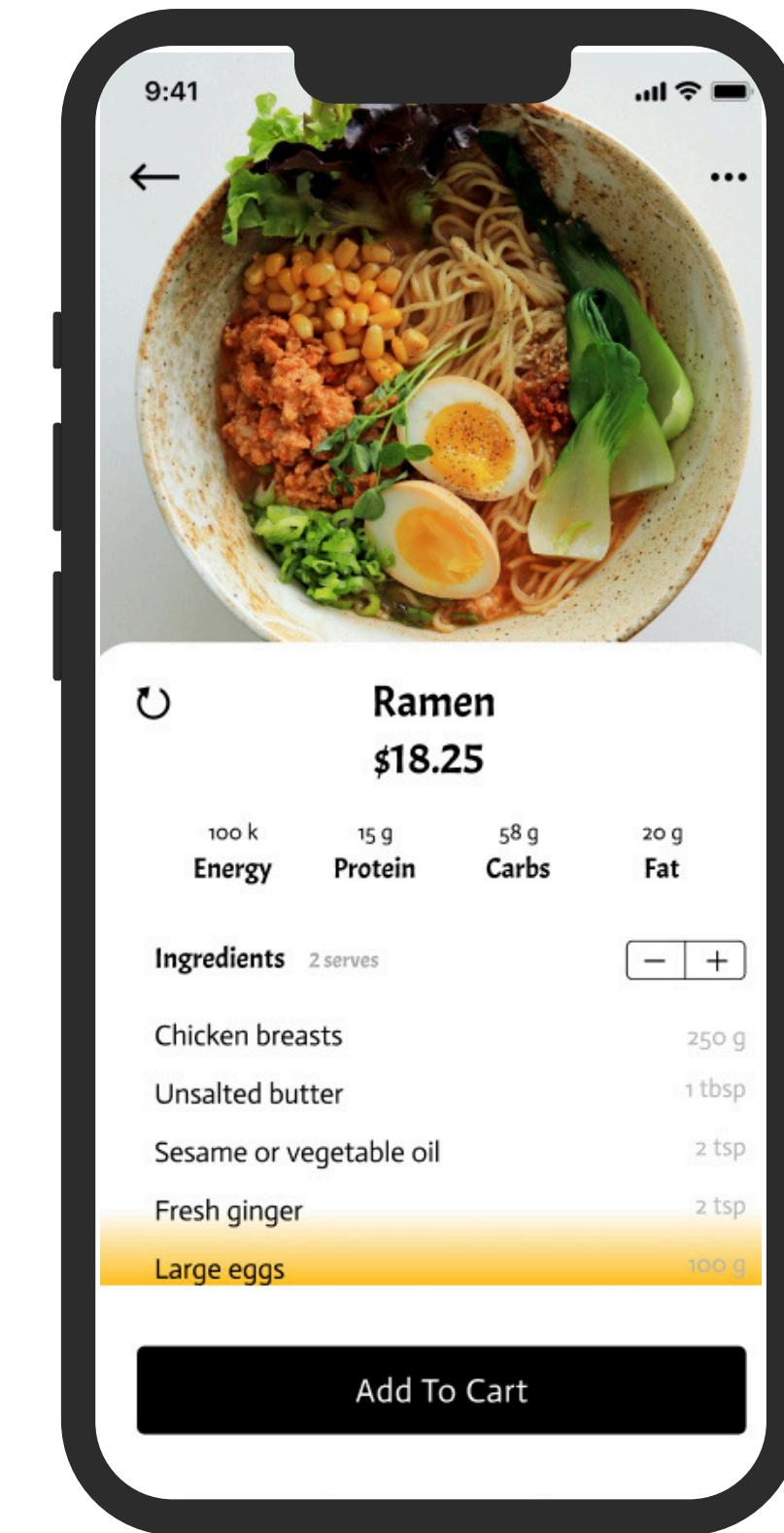
low fi prototype of the chosen idea



High-fidelity prototype



Fix: Added shopping cart sections and information details sections



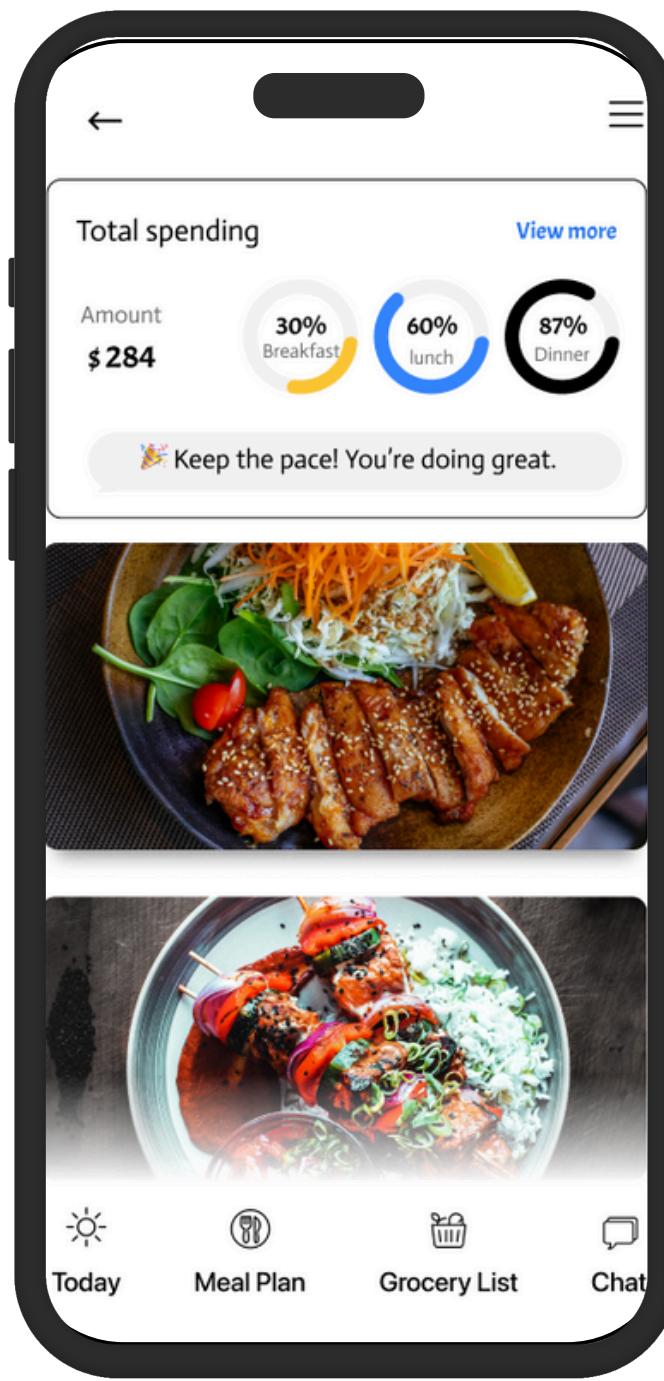
03

Problem: Spending record is not there



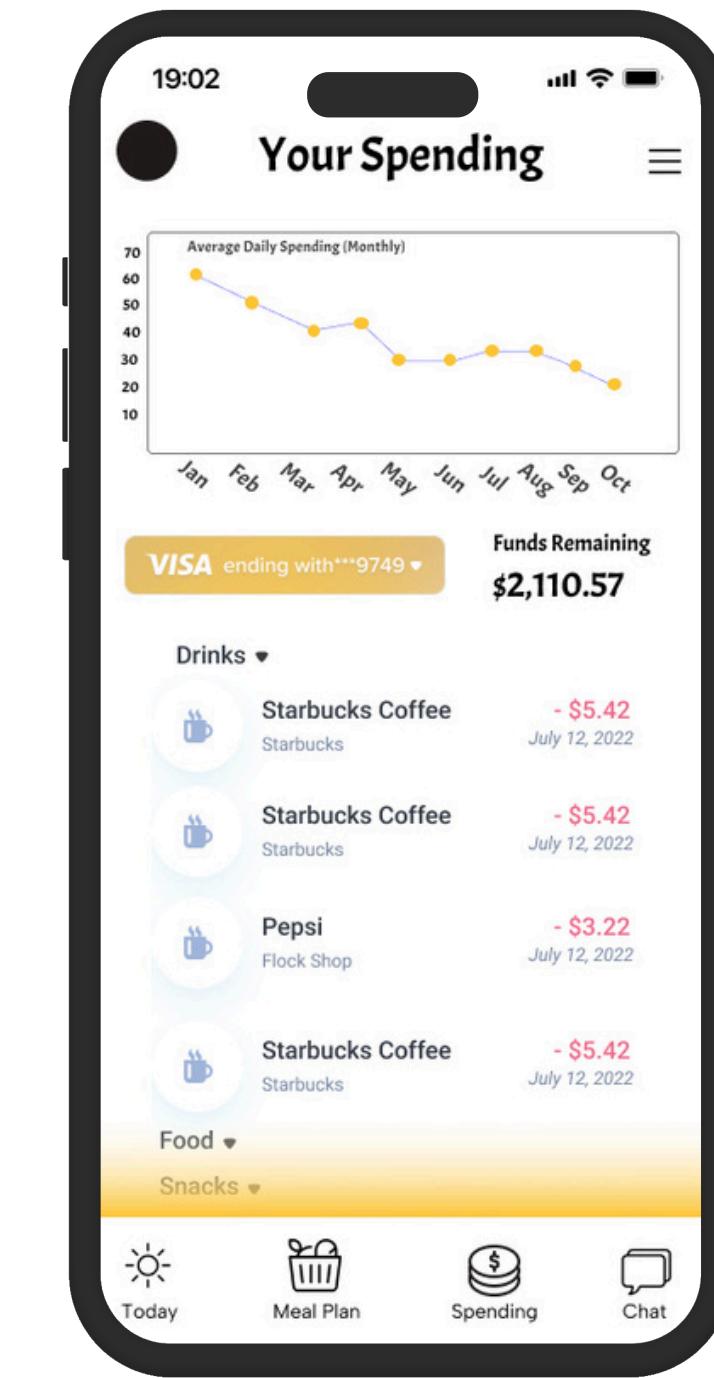
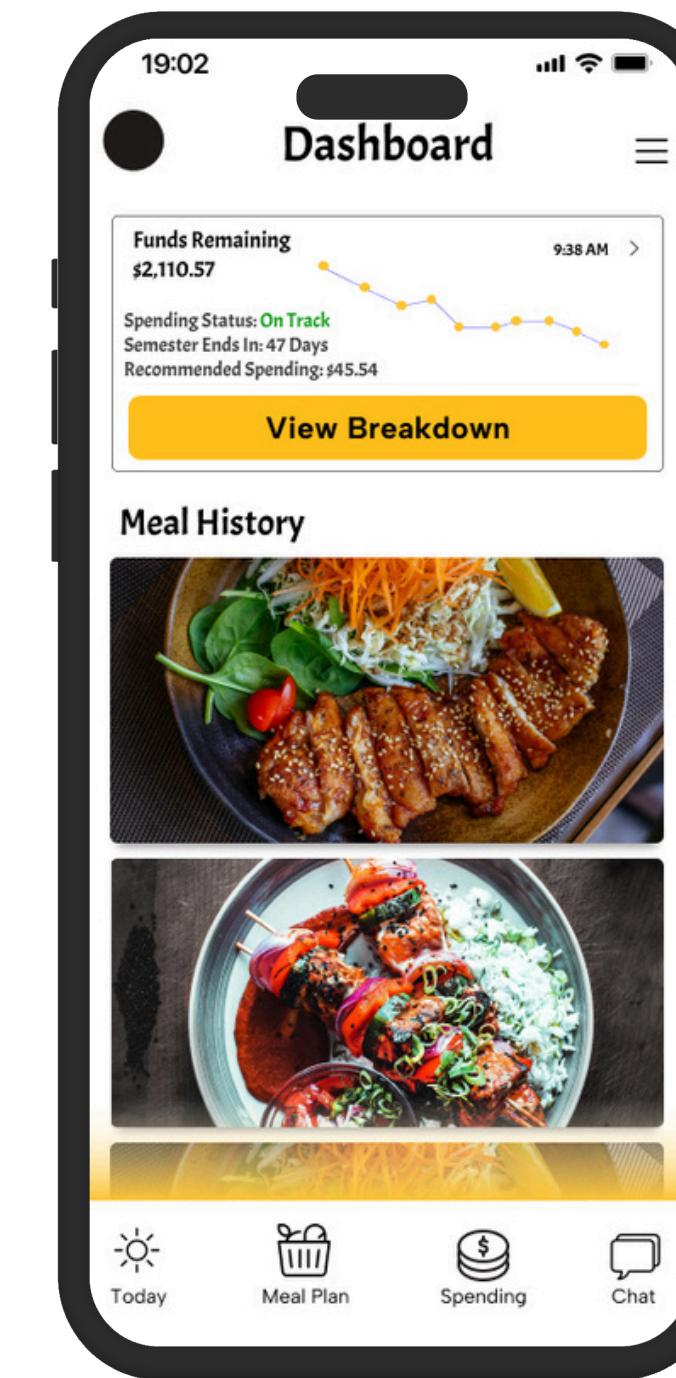
Features

low fi prototype of the chosen idea

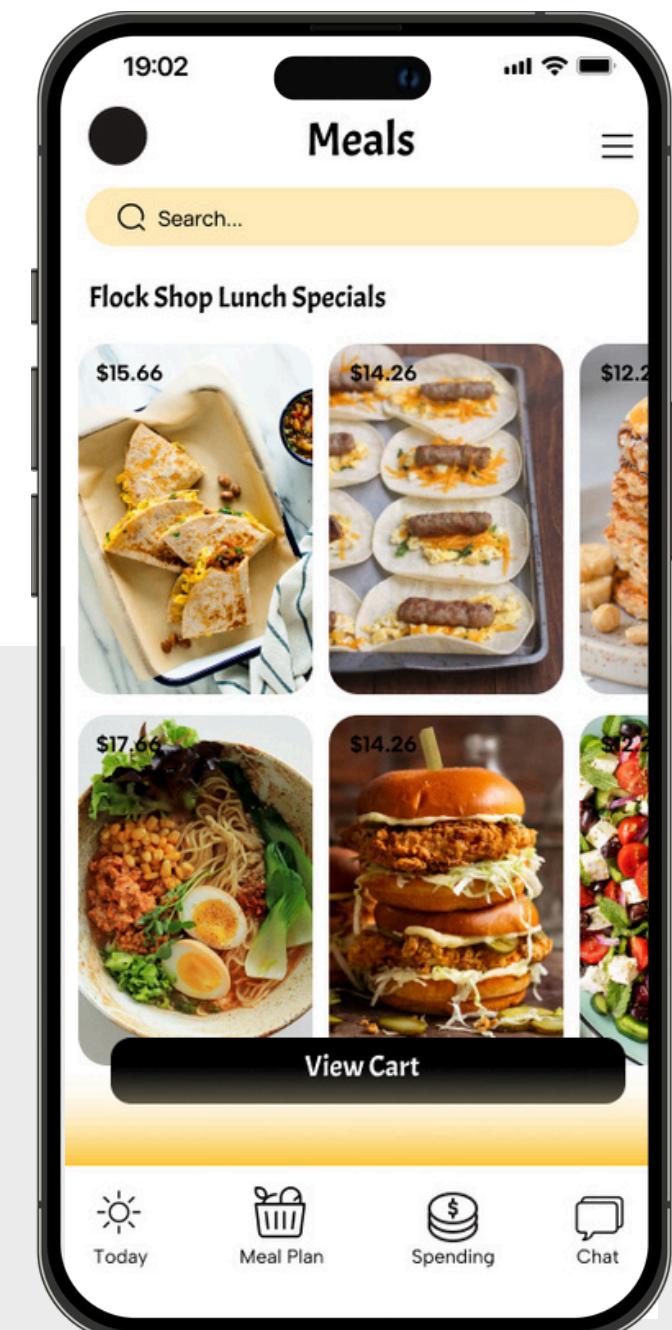
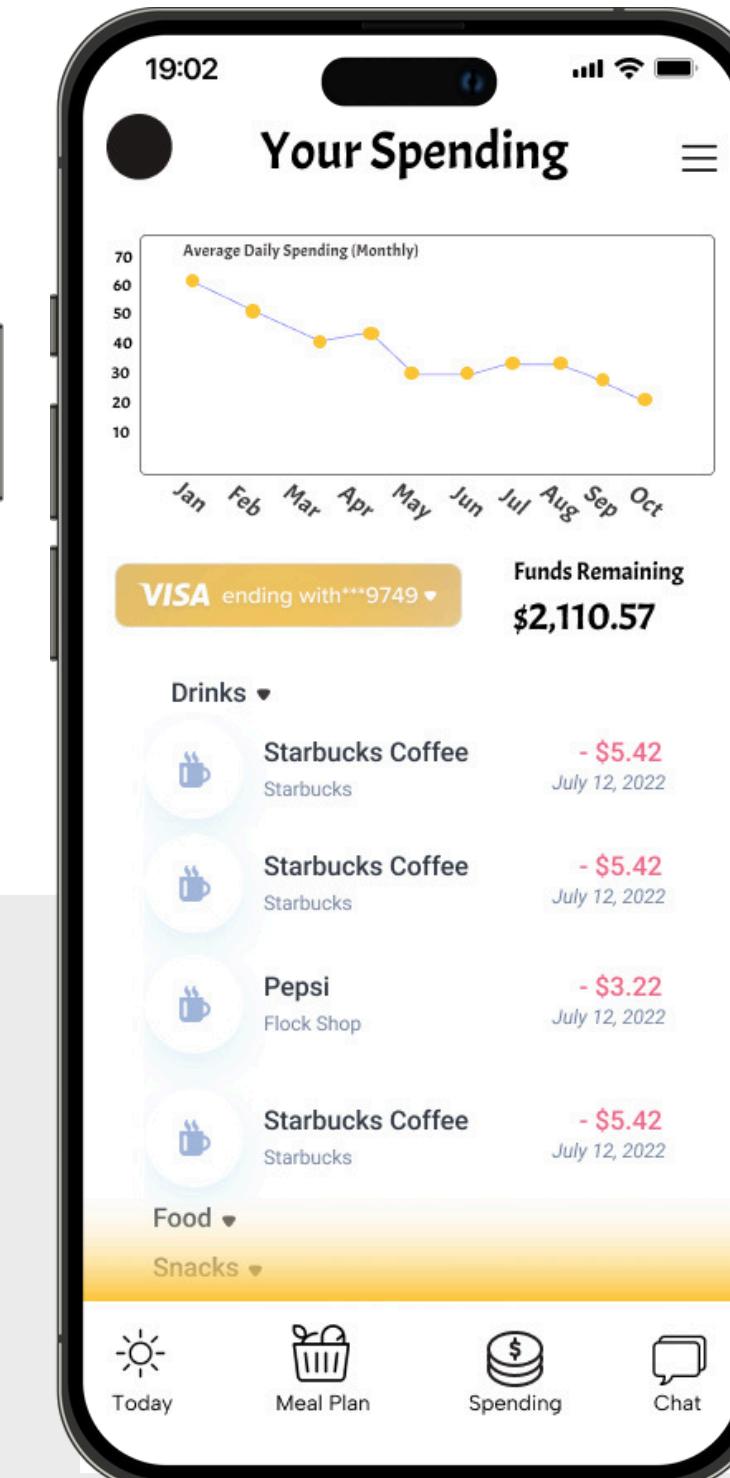
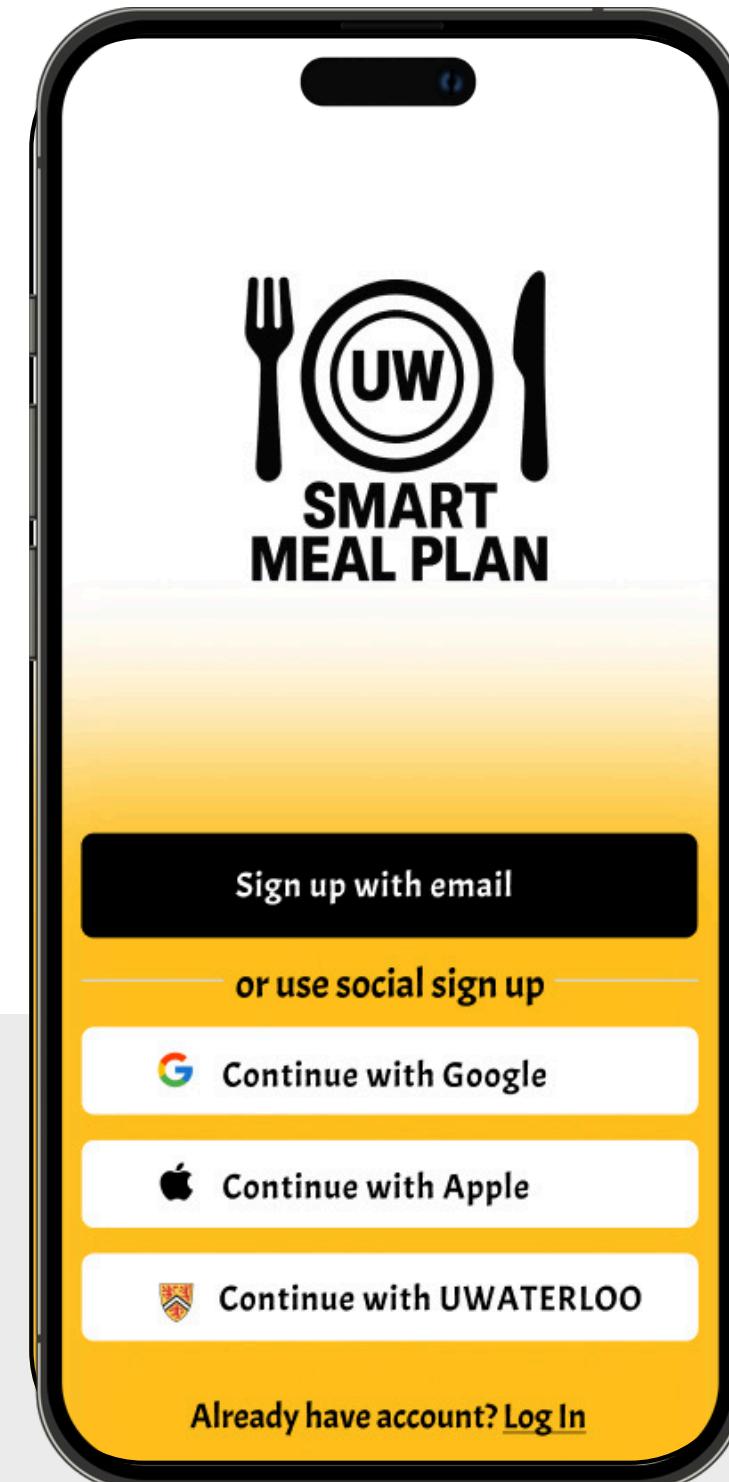
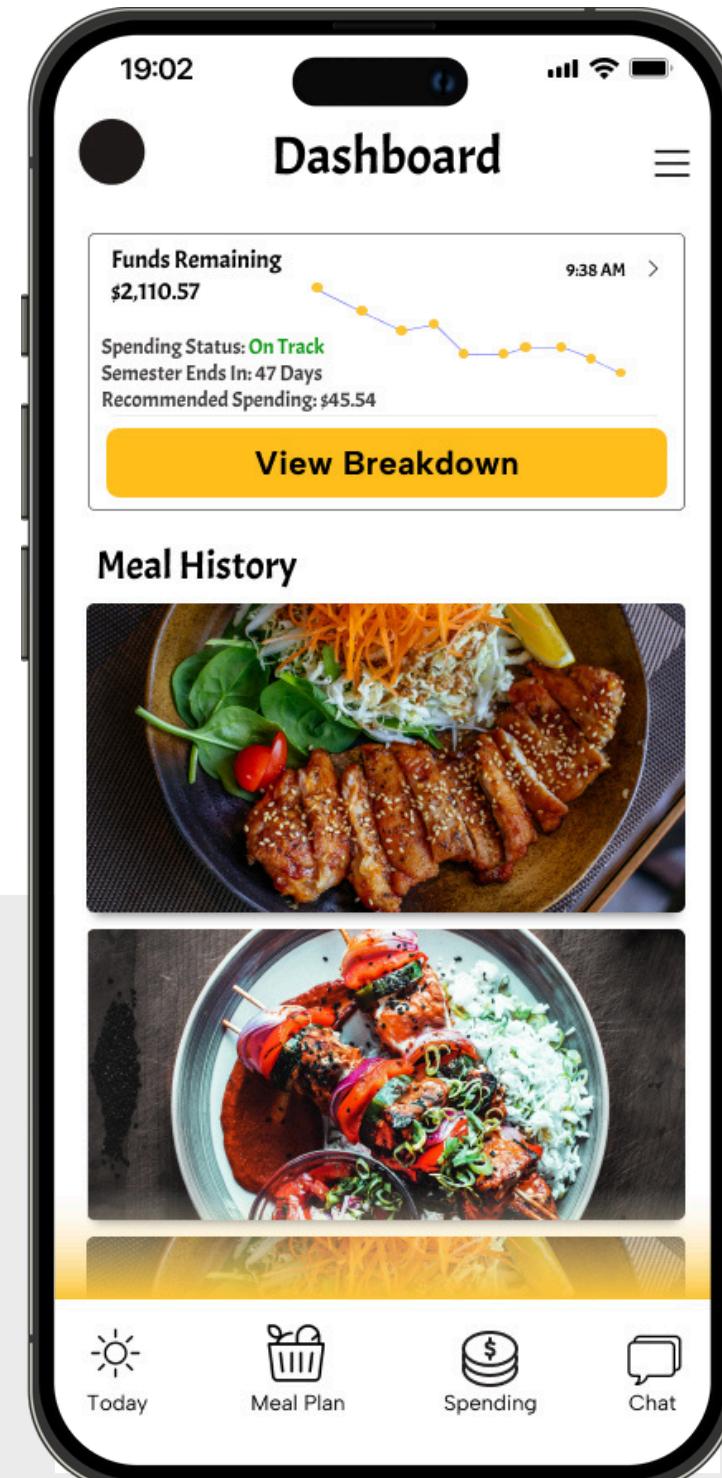
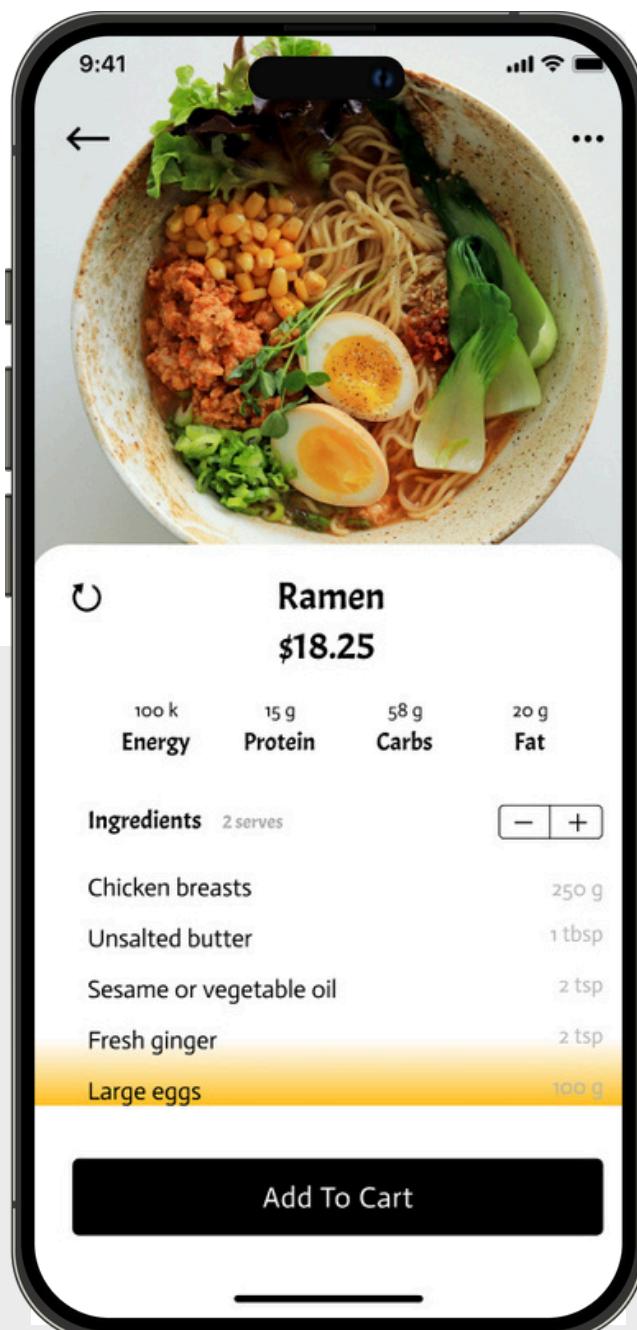


High-fidelity prototype

Fix: Added the record section for every item we spend on with the categories.



High-fidelity prototype for your meal planning and budgeting application at UW





Thank You !!!!!

Try out our application Try out our a
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