Fooducate App

Development Team

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Project Theme

Health and Safety
Summary: Our project primarily focuses on promoting health and well-being by providing users with tools to track their nutrition and maintain a healthy lifestyle.

User Story

As a health-conscious user, I want to track my daily nutrient intake with meal logging & meal planning, find and save healthy recipes, create a grocery list, and set a budget for the ingredients of the recipe. I also want to have a nutritional chatbot that can answer any nutrition related questions with a feature to get nutritional information from a picture of the food.

Computer Science / Software Concepts

- Database management - Implemented Firebase, designed the database using concepts learned from database design & implementation (csi 3450).

- Web Development - Used React and Material UI for user-friendly UI design, building from fundamental concepts in sophomore project.

- Version Control - Collaborating in a team environment, practicing scrum development policies.

- API Integration - Created personalized OpenAI Chatbot, using concepts learned from Software Engineering.

Life Balance Objectives/Goals Page

- Create Todos/Goals: Users can set goals across different life categories (nutritional, health, fitness, personal development, etc.).

- Track Progress: Visual indicators to show progress in each category.

- Journal Entries: Option to create and maintain journal entries for personal reflection.

Ingredient to Grocery List

- Meal Integration: Users can add ingredients from any meal in the database to their grocery list.
- Convenience: Simplifies grocery shopping by linking meals to grocery needs.
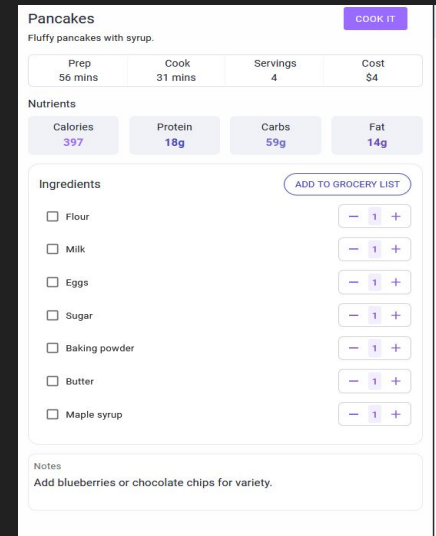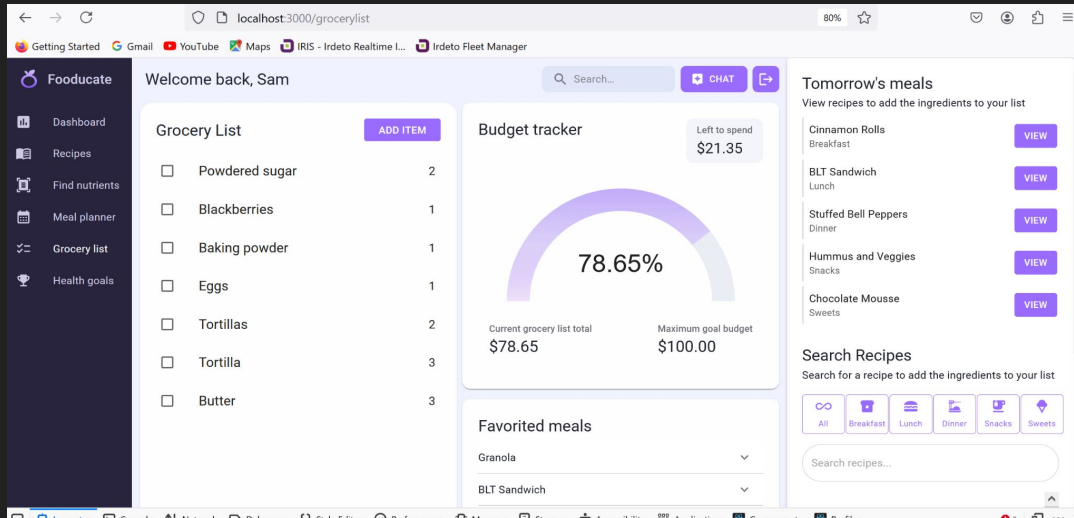
Favorite Meals Feature

- Meal Favorites: Users can mark and store their favorite meals for easy access.
- Enhanced Experience: Quick access to preferred meals improves user experience.
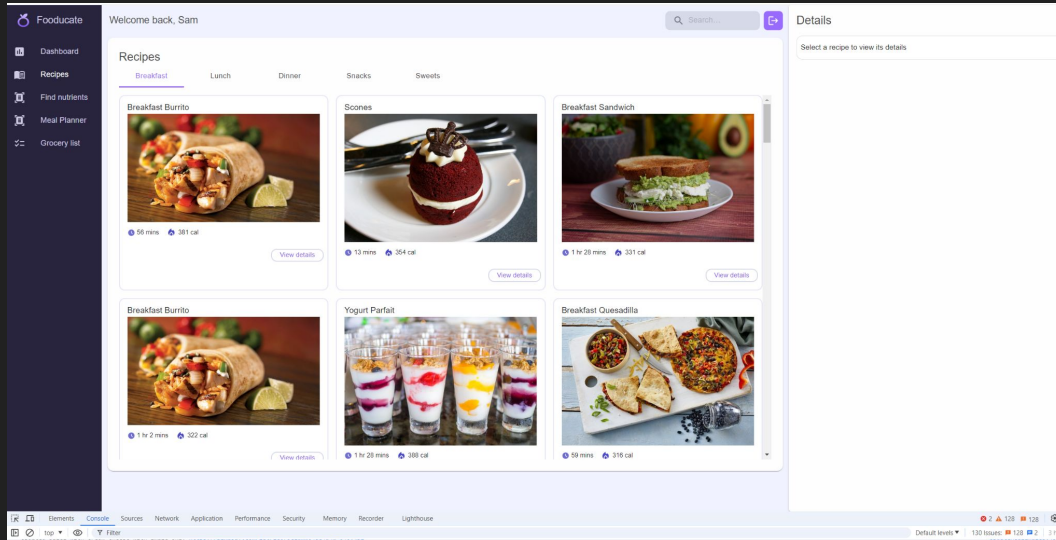
Budget Calculator

- Set Budget: Users enter their maximum budget for groceries.
- Track Spending: Real-time updates on how much has been spent and remaining budget.
- Total Calculation: Displays current total amount spent and remaining budget.
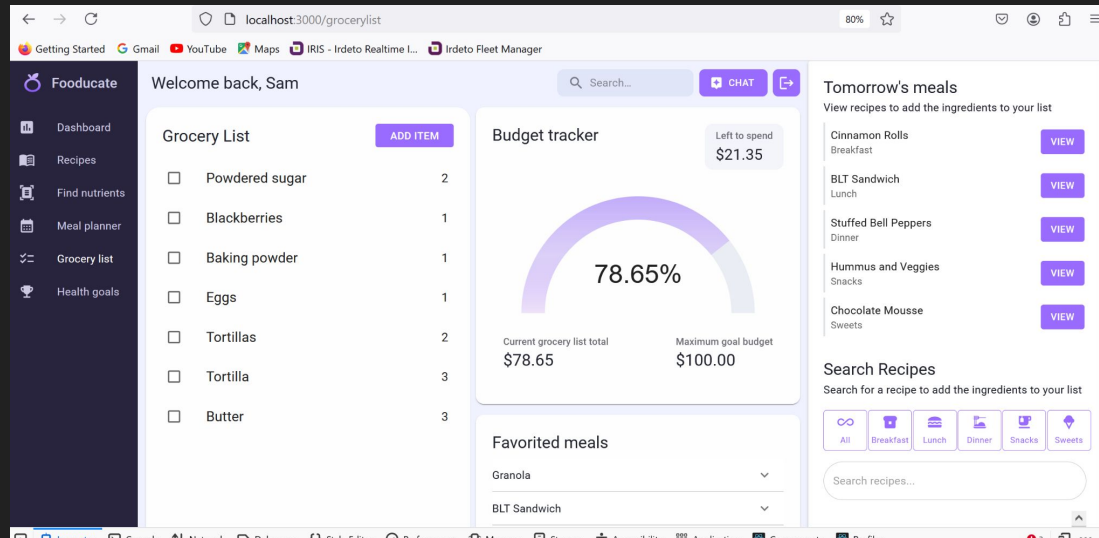
Macronutrient Intake Display

- Daily/Weekly Intake: Calculates and displays users macronutrient intake.
- Nutritional Tracking: Helps users monitor their nutritional balance.
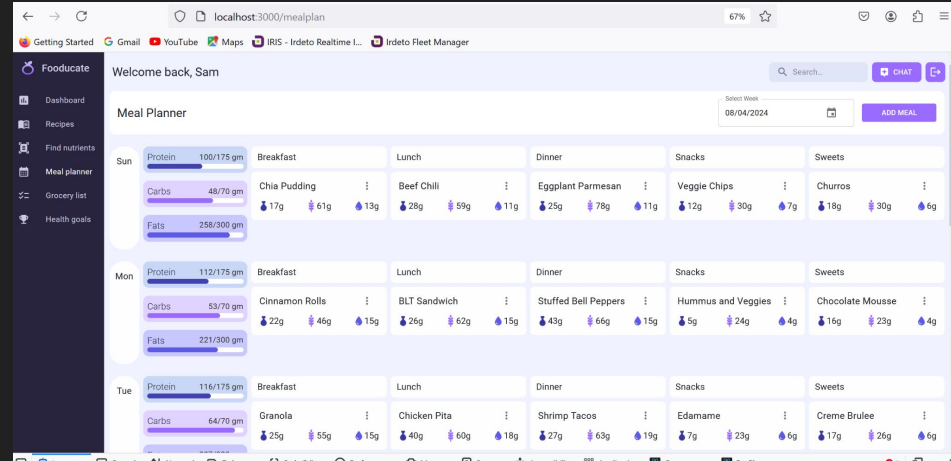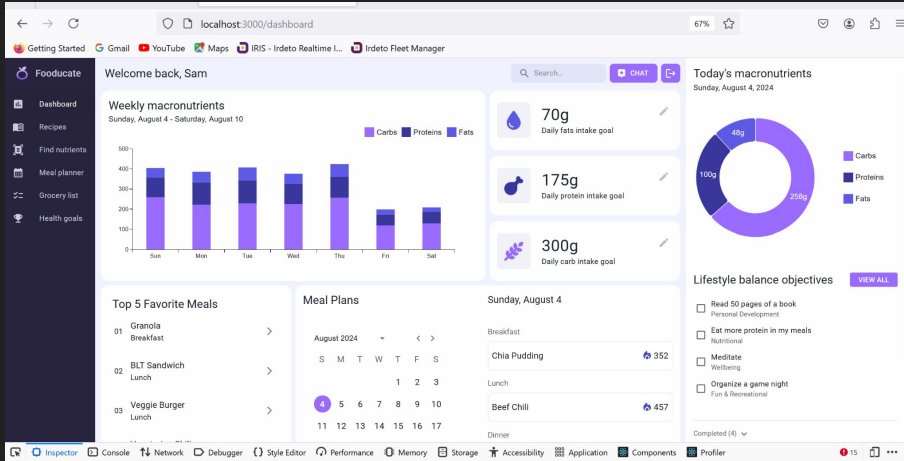
Nutritional Chatbot AI Coach

AI Coach: Provides personalized nutritional advice and support.
Functionality: Offers recommendations and answers nutrition-related questions.
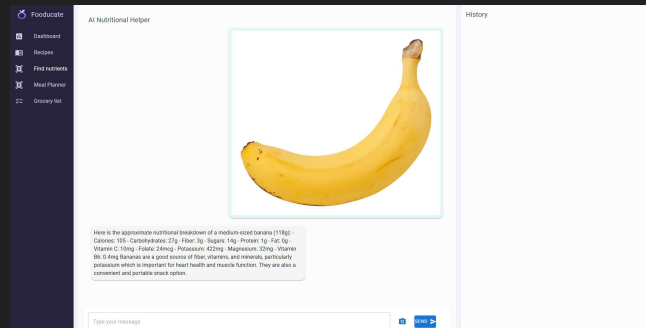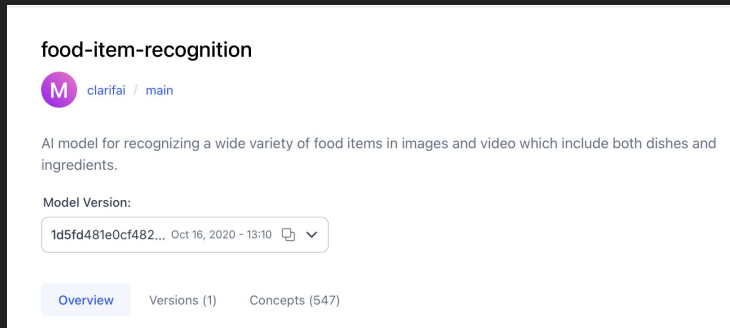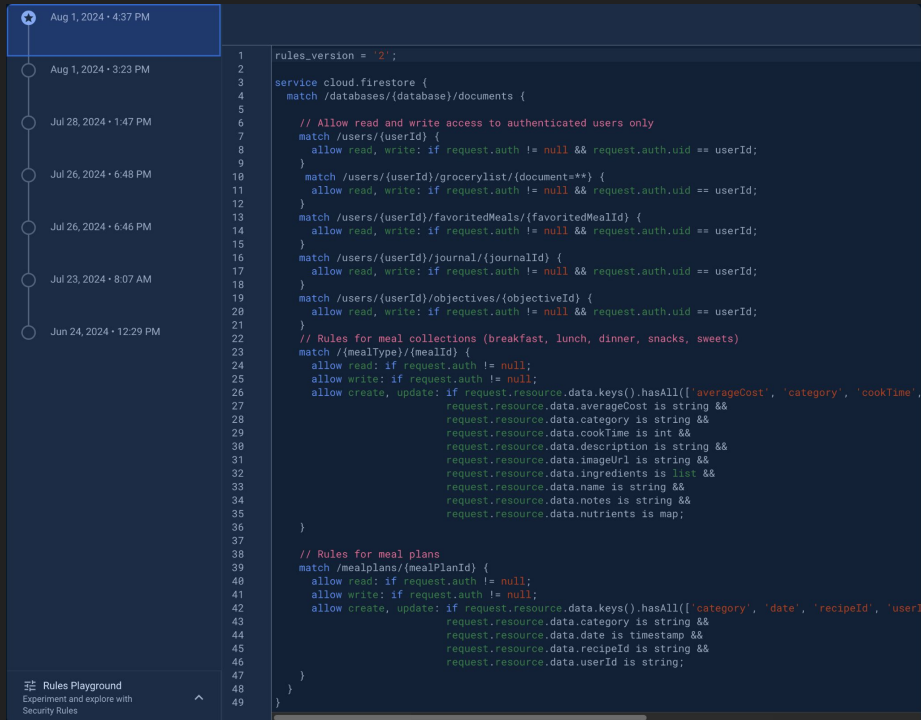
Demo!

User Access Management

- **Integrated security rules**
- **Rules for protecting user Information and database access.**

Work in Progress

- Personal Journal - Will help the user securely write down personal nutritional goals.
- Chatbot History - It will provide the user to look back at nutritional chatbot history instead of querying again.
- Health Goals - Users will be able to set weekly/monthly health goals and reminders.

Q&A

Questions and Answers:

• Open floor for questions from the audience.