Senior Project Fall Presentation

Diabetic Meal Planner App

Introductions

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Computer Science

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Computer Science

Diabetic Meal Planner

Background

Stakeholders
- 2 Cooper Medical School Seniors (Rowan University)
- Abyson Kalladanthyil & Ami Patel

Purpose:
- Address challenges faced by diabetic patients in managing nutrition, especially those with limited income or access to resources.

Audience:
- Non-tech-savvy users needing a simple, intuitive app.
- Diabetic patients requiring budget-conscious meal planning with culturally relevant recipes.
- Spanish speaking individuals.

Description

- Mobile app designed to help diabetic patients manage meals, track nutrients, and save on groceries.

- Empowers users to manage diabetes affordably and conveniently.

- Features include recipe search, weekly meal planning, grocery list generation, and store locator.

- Targets low-income, Spanish-speaking, and non-tech-savvy users.

- Built for iOS using Swift, AWS, and APIs like Edamam and Google Maps.

- **Goal:** Get the Application working correctly/efficiently and ready to deploy to Apple Store

Diabetic Meal Planner

Functional Requirements

- Account creation.

- Usage of APIs for meal recipes and map showing nearby grocery stores.

- Toggle language between English and Spanish.

- Search for diabetes-friendly recipes with nutrient details.

- Create and track weekly meal plans.

- Track daily nutrient intake (carbs, sugar, fiber).

- Generate editable grocery lists with cost estimates.

Diabetic Meal Planner

Non-functional Requirements

- **Performance**: Launch times under 2 seconds.

- **Reliability**: Crash-free rates by industry standards.

- **Security**: Secure storage & authentication (Amazon Cognito).

- **Robustness**: Error tracking & code-review.

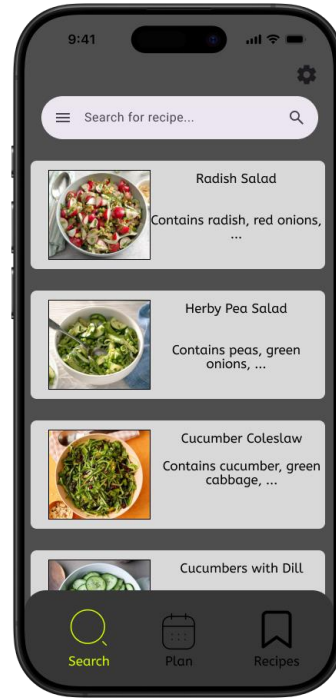- **Design:** Modularity & documentation.

Other Accomplishments

- Project Plan, Customer Requirements, SRS
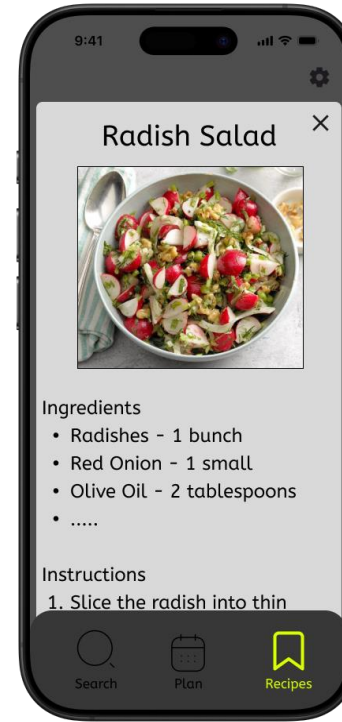
- Logo

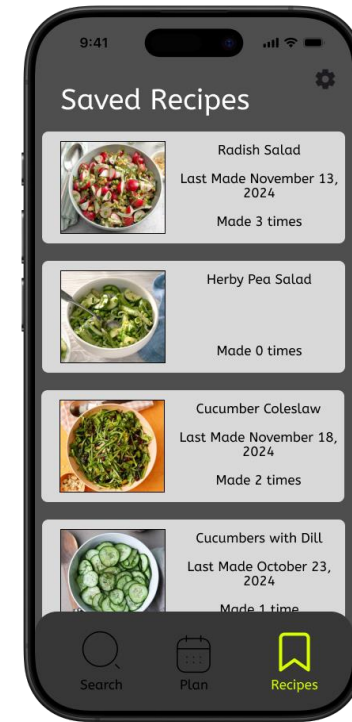- GitHub Repo
  - Docs & Code

- User Interfaces

User Interfaces

Sign In Page

Recipe Search
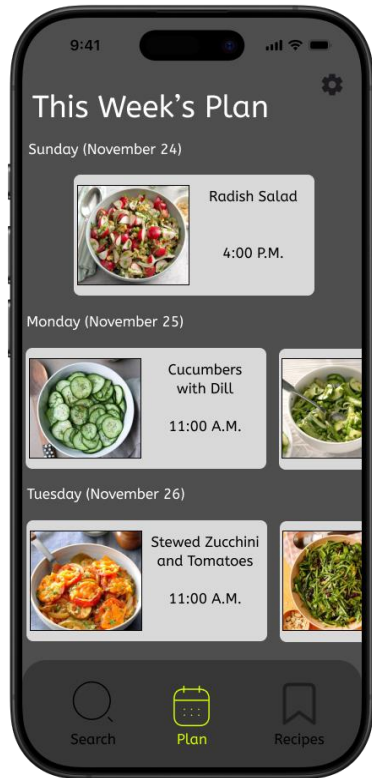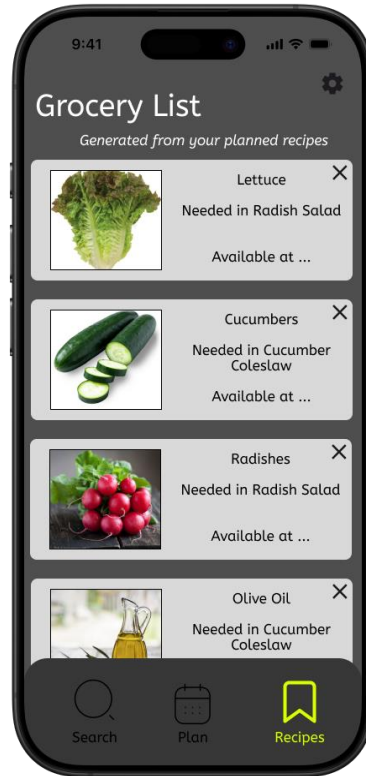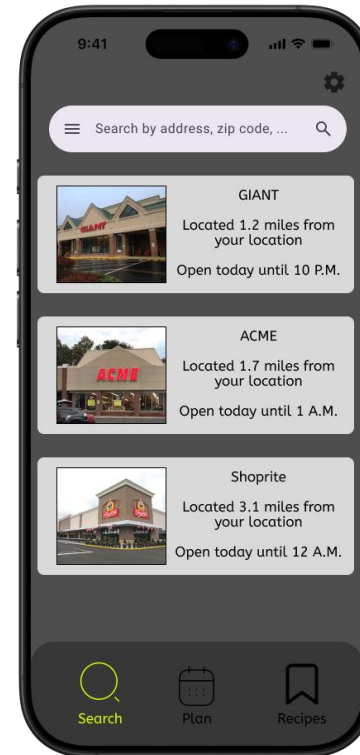
Detailed Recipe Info

Saved Recipes

Diabetic Meal Planner

User Interfaces

Weekly Meal Planner

Grocery List Generator

Grocery Store Selection

Language Settings

Diabetic Meal Planner

Technical | Non-Technical Issues

- iOS App Development
  - Xcode requires macOS for development
  - Everyone has obtained a Mac

Diabetic Meal Planner

Thank you