

Macro Tracker

Eunice Hong, Danny Pham, Vy Dinh, Elise Chan



What will we learn in this topic?



1

Introduction



2

Users



3

**Expected
Features**



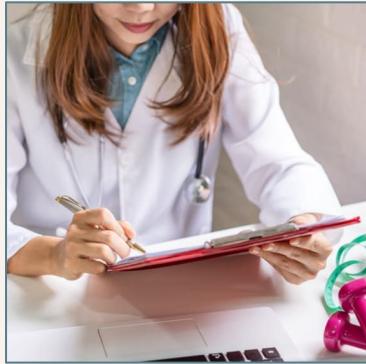
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ER Diagram

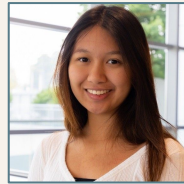
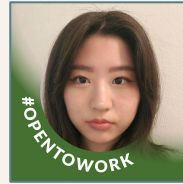
Goal

✦ The Calorie Tracker Application aims to provide users with a tool for tracking and managing their daily caloric intake. Users will be able to create personalized calorie goals, track their food intake, plan meals, and gain insights into their nutritional habits. The program will prioritize simplicity and usability, making it accessible to those with various understandings of nutrition and dieting.

Stakeholders



Nutritionists
Dietitians



Developers



Average
Users



Expected Features

1

Calorie Tracking

2

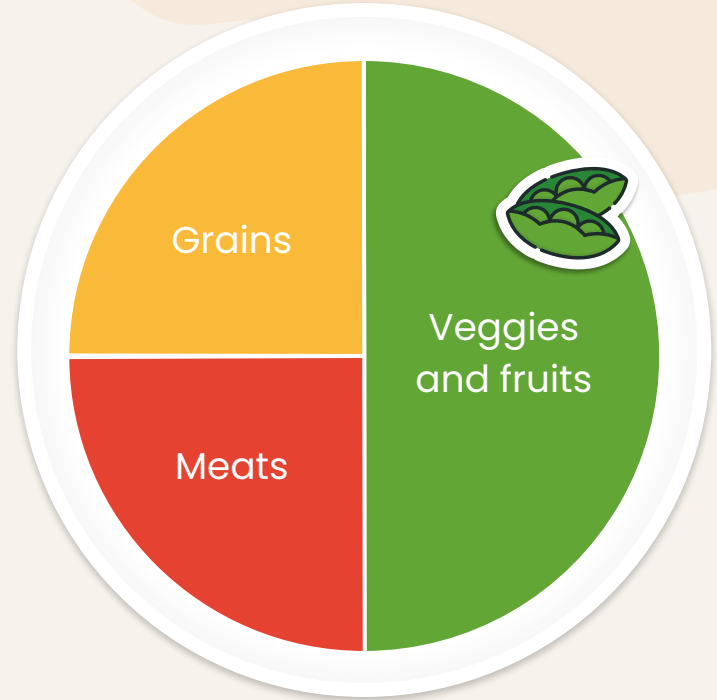
Nutritional Analysis

3

Meal Planning

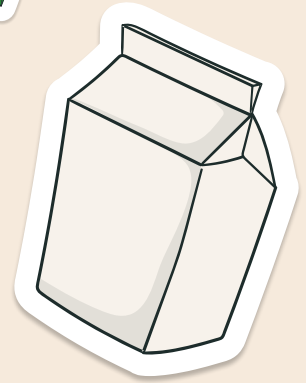
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Goal Setting



Functionalities

- Health Enthusiast
 - Set daily calorie goals based on personal metrics.
 - Input caloric intake regarding food items
 - Receive real-time feedback on nutritional goals.
 - Keep track of progress bar for goals
 - Information about dietary needs/deficiencies relating to health issues
- Fitness Novice
 - Access a database of pre-logged common foods for easy tracking.
 - Receive personalized recommendations for meal plans.
 - Get educational content on nutrition and healthy eating.
 - Monitor the food logs of clients for remote guidance.
 - Set specific nutritional targets for self with exercise in mind.



Users





Average User

View/Edit nutrition plan, food intake, calorie goals

Admin

View/Edit nutrition plan, food intake, calorie goals, user data, app features



Entities



User

These are the main users of the database. They are the ones able to view and edit their nutrition plan, food intake, and other data.

Admin

These are the administrators/developers that can view and edit user data and app features.

Food Items

Represents the different food items on the app such as fruits like strawberries and apples, and vegetables like broccoli and spinach. It'll hold information such as the calories as well.

Meal Plans



These represent a series of meals that users can assign to certain days. The meal plans will use meal IDs to identify which meals belong in the meal plan.

Goals

Represents users nutritional goals and holds the title, description, and goal average caloric intake.

Dietary Restriction

Represents any dietary limitations or requirements that a user might have.



Key Attributes

User

Key Attribute – UserID. Users are the primary entities that input and track their dietary habits.

FoodItem

Key Attribute – FoodID. This entity represents individual food items with attributes such as name, calories, proteins, fats, and carbohydrates.

MealPlan

Key Attribute – MealPlanID. This organizes meals for Users on specific days, including total nutritional values.

Admin

Key Attribute – AdminID. Admins manage application features and maintain user data security.

Relationships

Manages

An admin: maintaining app features and users/user data

Protecting

An admin: protecting user data

View/Edit

Users/admins: view/edit

Relationships With Cardinality

User to MealPlan

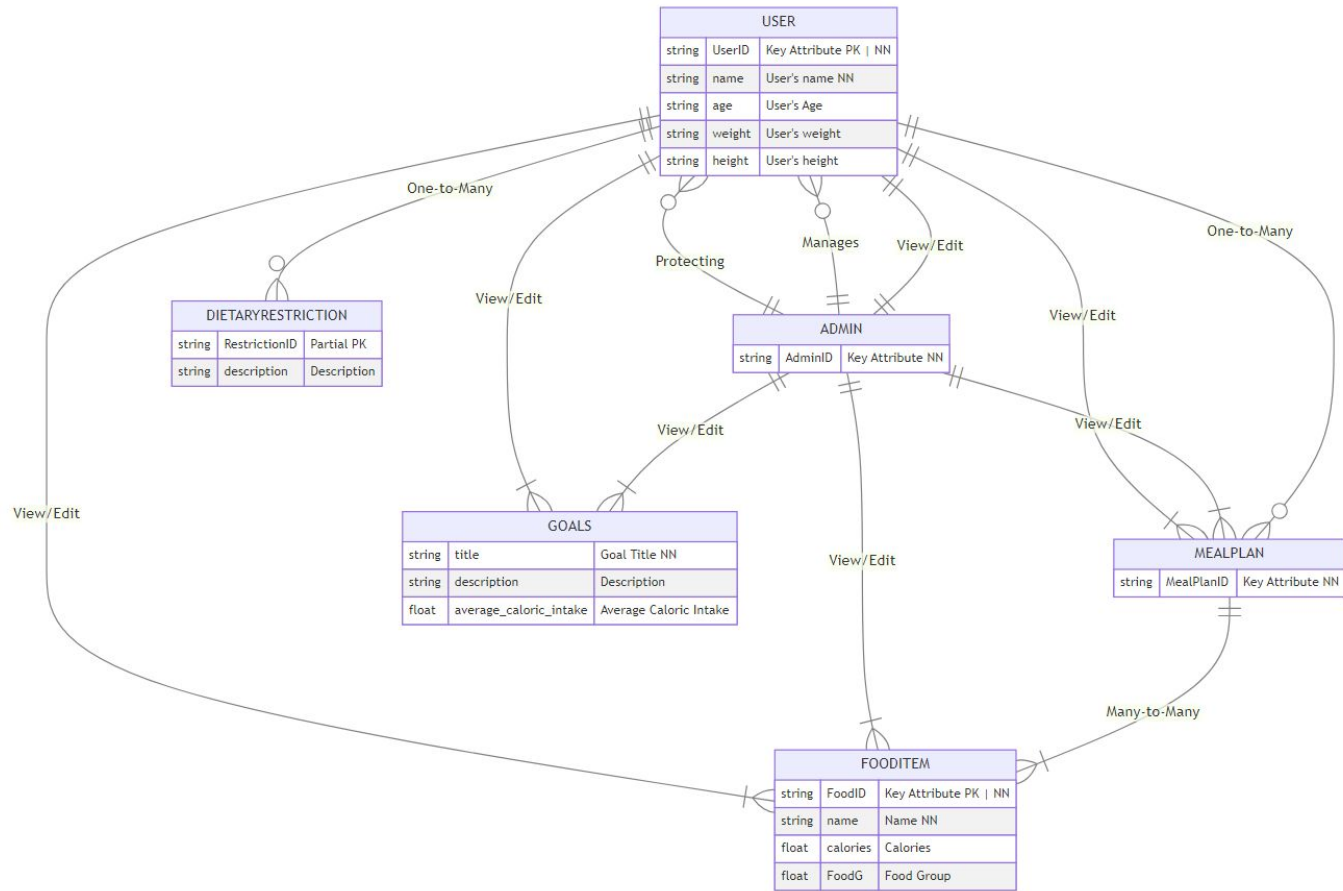
One-to-Many. Participation of User is mandatory, MealPlan is optional

MealPlan to FoodItem

Many-to-Many. Participation of both entities is mandatory

Admin to User

One-to-Many. Participation of Admin is mandatory, User is optional



Questions?

