

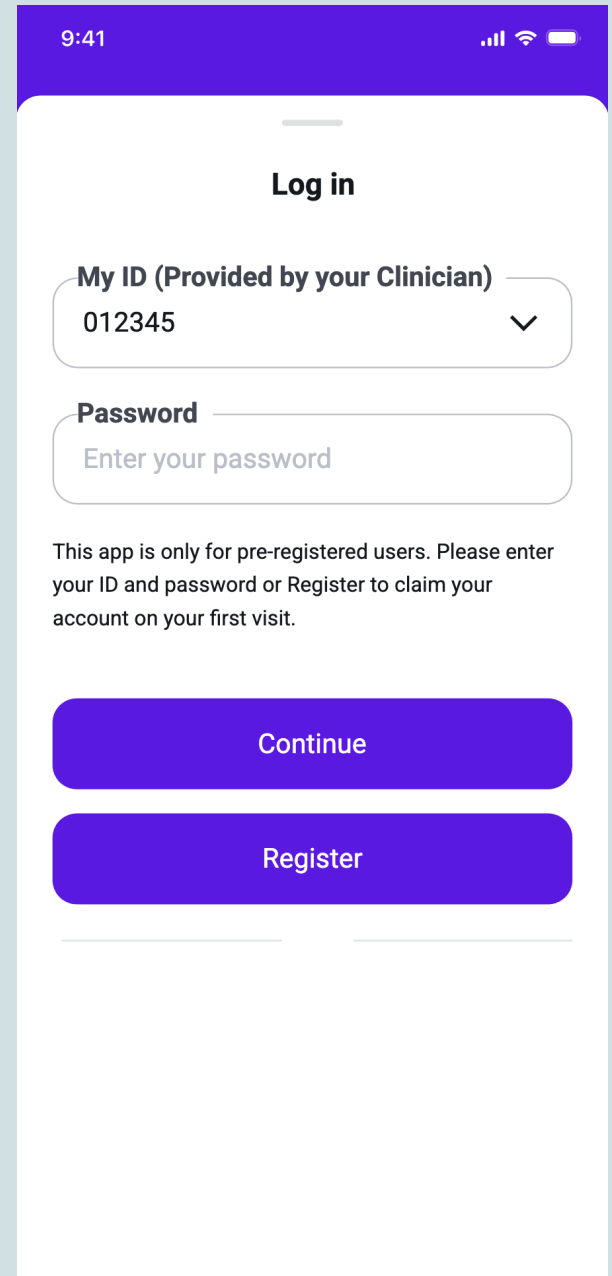
NutriTrack Mockup

Assignment 3

Screens & Descriptions

This document presents the new and updated screens you must implement in assignment three only.

To log in, users must authenticate via the login screen using their User ID and the password they set during registration. Authentication credentials are stored in the application's Room database, not in a CSV file. A one-time registration (account creation) is required before users can log in for the first time. A new button is added to navigate to the registration screen (see next page).

A mobile application login screen with a purple header bar. The status bar at the top shows the time 9:41, signal strength, Wi-Fi, and battery. The main content area is white. At the top, the text "Log in" is centered. Below it, there are two input fields. The first is labeled "My ID (Provided by your Clinician)" and contains the text "012345" with a dropdown arrow on the right. The second is labeled "Password" and contains the placeholder text "Enter your password". Below the input fields, there is a paragraph of text: "This app is only for pre-registered users. Please enter your ID and password or Register to claim your account on your first visit." At the bottom, there are two large, rounded rectangular buttons: a purple one labeled "Continue" and a white one with a purple border labeled "Register".

9:41

Log in

My ID (Provided by your Clinician)
012345

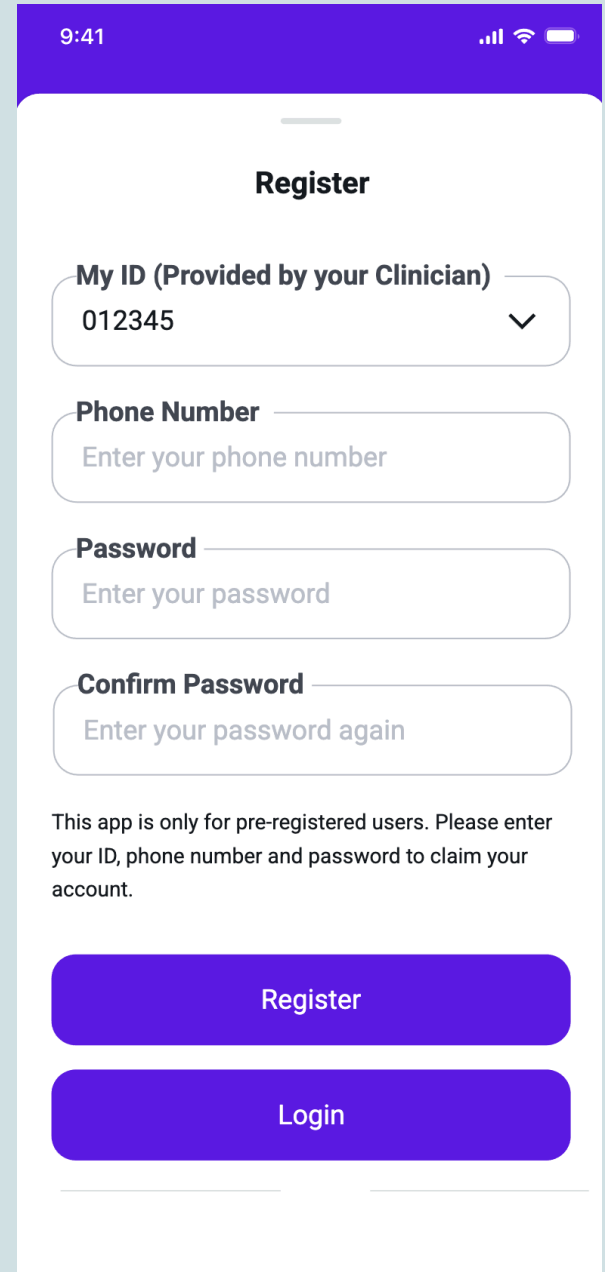
Password
Enter your password

This app is only for pre-registered users. Please enter your ID and password or Register to claim your account on your first visit.

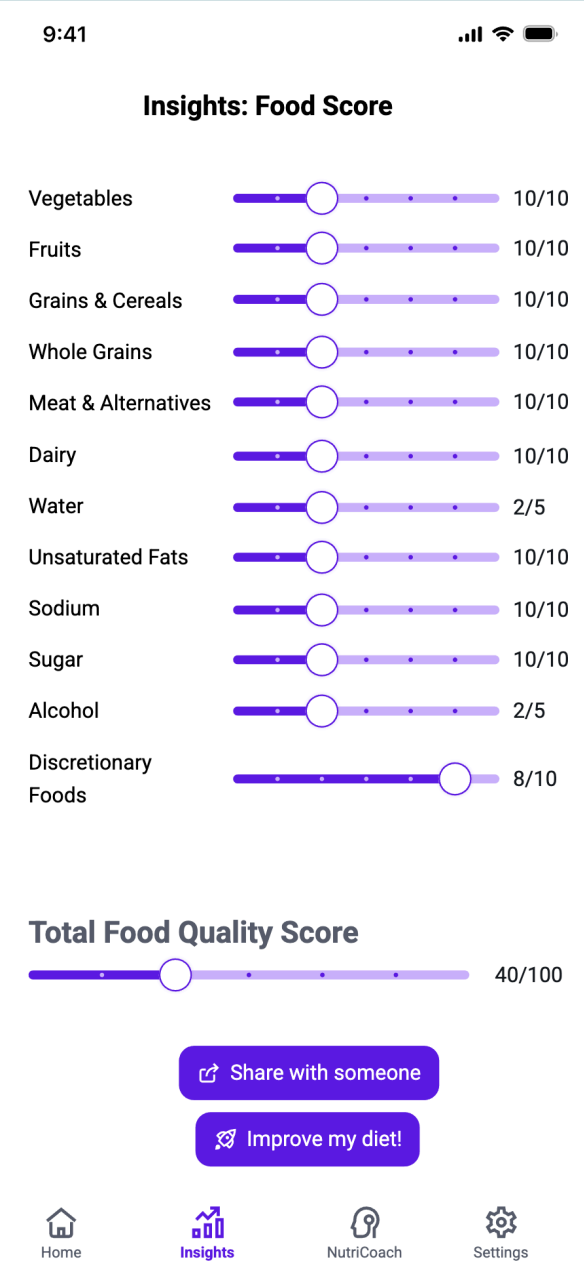
Continue

Register

The register screen takes as input the user ID and phone number and use them to identify the user's document in the database. Then, it sets the new password to the user when the user clicks the Register button. The login button navigates back to the login screen.

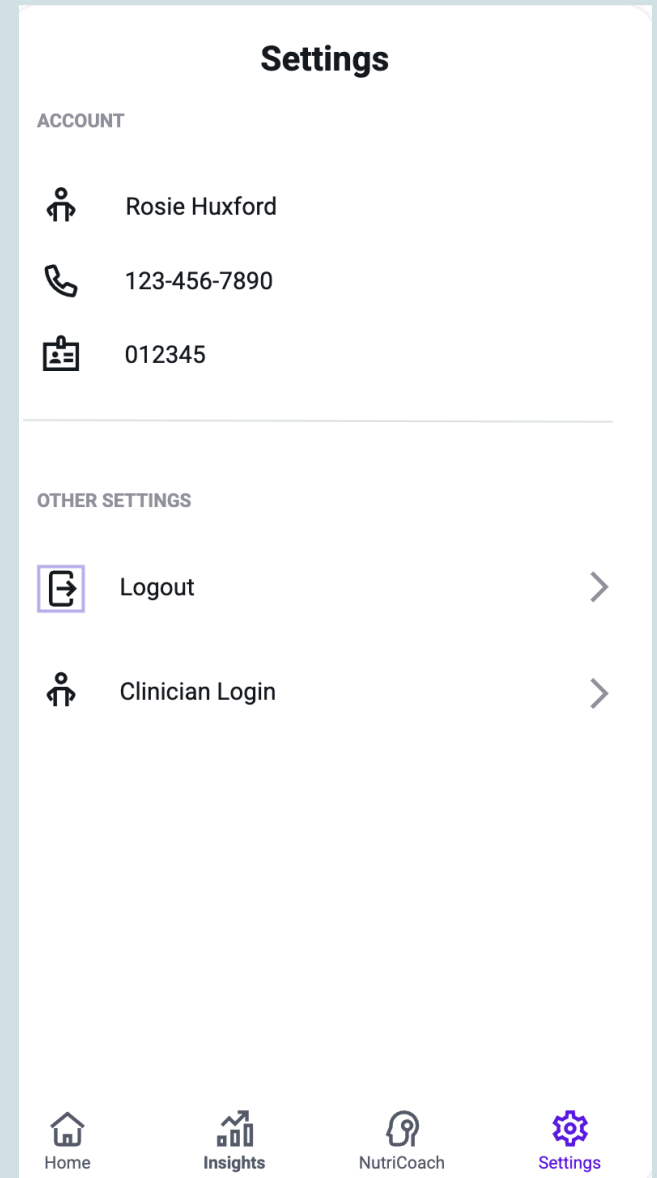
A mobile application interface for a registration screen. The screen has a purple header bar with the time '9:41' and signal/battery icons. The title 'Register' is centered below the header. There are four input fields: 'My ID (Provided by your Clinician)' with the value '012345' and a dropdown arrow, 'Phone Number' with the placeholder 'Enter your phone number', 'Password' with the placeholder 'Enter your password', and 'Confirm Password' with the placeholder 'Enter your password again'. Below the fields is a text block stating: 'This app is only for pre-registered users. Please enter your ID, phone number and password to claim your account.' At the bottom are two large purple buttons labeled 'Register' and 'Login'.

Configure the 'Improve my diet' button so that it navigates the user to the NutriCoach screen upon being clicked.



The settings page shows in its upper half the user's details as depicted. In the lower half, it should have two buttons:

- button to logout the user and takes him to the login screen again and
- button to navigate the user to the Clinician Login screen (see below).



NutriCoach Screen Functionality:

The NutriCoach screen serves two primary purposes:

- **Fruit Details Retrieval:** Users can fetch detailed fruit information from the FruityVice API, displaying nutritional data and other relevant details.
- **Motivational Messages:** Users can request AI-generated motivational tips from Google Gemini (refer to A3 specifications for implementation details).


All generated motivational messages are stored in a dedicated database table.

Users can view their saved tips in a modal dialog by clicking the "Show All Tips" button.

NutriCoach

Fruit NameDetails

family	: Musaceae
calories	: 96
fat	: 0.2
sugar	: 17.2
carbohydrates	: 22
protein	: 1

 **Motivational Message (AI)**

Hey! Just a little nudge to maybe grab a banana or an apple today. They're a super easy and tasty way to get some extra goodness in. You got this! 🍎 🍌

Shows All Tips

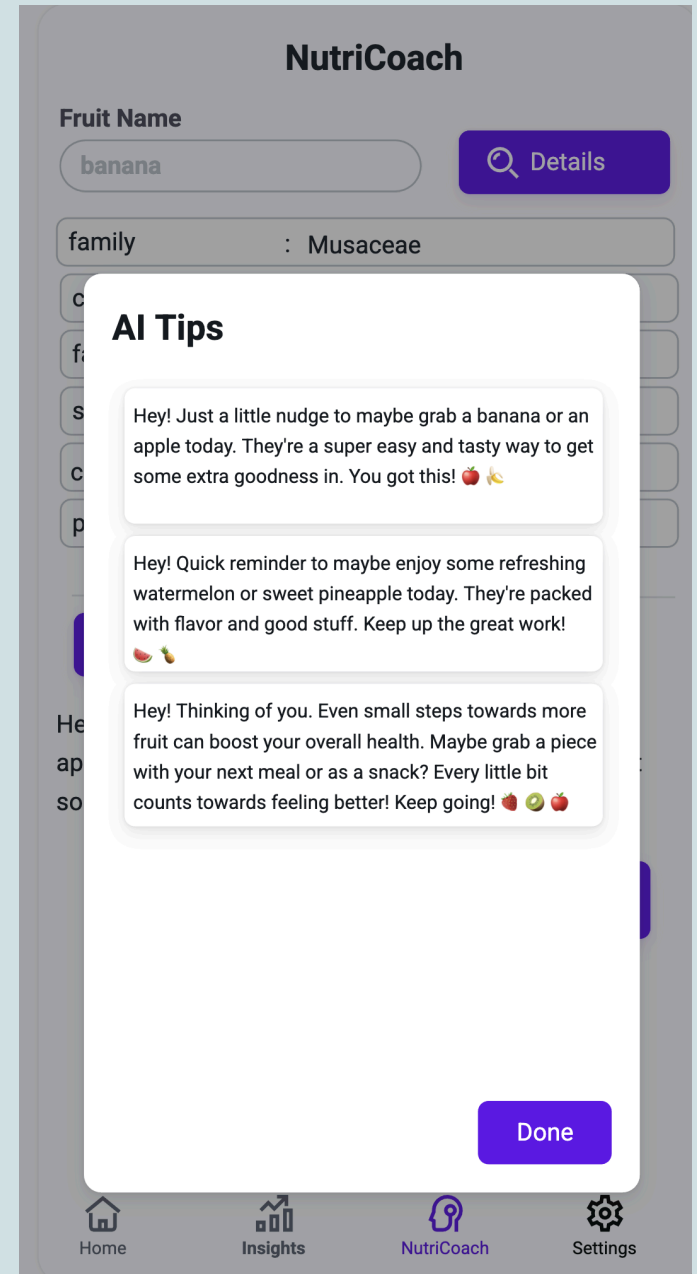
Home

Insights

NutriCoach

Settings

This is the result of clicking 'Show All tips' button. It retrieves all the tips from the database and show them as a list in a dialog.



This screen is accessible via the Settings menu. To enter the clinician section, a valid predefined access key must be provided for authentication.

Clinician Login

Clinician Key
Enter your clinician key

→ Clinician Login

Home

Insights

NutriCoach

Settings

The Clinician screen serves two key functions:

- **HEIFA Score Averages** – Displays the average HEIFA scores for male and female in the upper section.
- **AI-Powered Data Analysis** – When the user clicks the "Find Data Patterns" button, the app sends the dataset to a Generative AI model, which identifies and returns three key data patterns. These insights are then presented in a clear, structured list.

Clinician Dashboard

Average HEIFA (Male) : 25.5

Average HEIFA (Female) : 30.1

Find Data Pattern

Variable Water Intake: Consumption of water varies greatly among the users in this dataset, with scores ranging from 0 to 100. There isn't a clear, immediate correlation in this small sample between water intake score and the overall HEIFA score, though some high scorers did have high water intake.

Low Wholegrain Consumption: The intake of wholegrains appears generally low across this group. Only one user in the provided sample data had a recorded intake and score for wholegrains, while the rest had zero.

Potential Gender Difference in HEIFA Scoring: The data includes columns for both HEIFAtotalscoreMale and HEIFAtotalscoreFemale for each user. In several cases, the potential score calculated for females is slightly higher than that calculated for males, suggesting the HEIFA criteria might result in slightly different potential maximums or scoring based on gender recommendations, independent of the actual user's intake.

Done

Home

Insights

NutriCoach

Settings