

Group number: 8

Team members: Nicole (Yingting) Cao, Bowen Huang, Gina Jeon, Huyen Nguyen

Name of project: MealMentor

Dependencies: Xcode 16.2, Swift 5, Firebase 11.8.1, DGCharts 5.1.0, TinyConstraints 4.0.2, abseil 1.2024011602.0, AppCheck 11.2.0, GoogleAppMeasurement 11.7.0, GoogleDataTransport 10.1.0, GoogleUtilities 8.0.2, gRPC 1.65.1, GTMSessionFetcher 4.3.0, InteropForGoogle 100.0.0, leveldb 1.22.5, nanopb 2.30910.0, Promises 2.4.0, SwiftProtobuf 1.28.2

Special instructions:

- Must connect to non-UT wifi or personal hotspot for food logging and chatbot features to work (they use the DeepSeek API, [banned by UT](#) in Feb. 2025)
- Run on iPhone 16 pro max simulator
- To login to our test account:
 - Email: bevo@longhorn.com
 - Password: hookemhorns

Feature	Description	Release Planned	Release Actual	Deviations	Who worked on it (percentage)
Login/Sign up Page	Where new and returning users log in and create accounts. Follows an email/password format that gives an alert if any errors appear	Alpha	Alpha	N/A	Bowen (100%)
Onboarding Survey	Where new users after creating their accounts input in their personal information for our app to give personalized recommendations. Includes optional inputs for gender, height, weight, age, allergies, dietary restrictions, goals, and nutrition focuses.	Alpha	Alpha	Add in input for first/last name	Bowen (100%)
Main Discovery Page	A scrollable feed that visually relays a user's meal, nutrition, and tracking data. It	Stretch goal	Alpha	N/A	Gina (100%)

	includes stats like streak, which days have meals logged, and data visualizations. Tiles segue to the calendar page and detailed visualizations pages.				
Meal Logging	The logging functionality lets users log foods via DeepSeek API to generate nutrition data, stored as Food objects in Firestore with user/category metadata. UI features loading/error states, and live meal previews. The log view displays categorized daily meals in tables, showing calories/fat/protein. Supports swipe-to-delete, Firestore updates, and syncs with Firebase Auth/Storage. Integrates real-time data fetching.	Alpha	Alpha (finished in final)	N/A	Nicole (100%)
Meal Photo Gallery	Photos uploaded to Firebase Storage, linking URLs to Firestore.	Beta	Beta (finished in final)	N/A	Huyen (50%) Nicole (50%)
Meal History Calendar	Monthly calendar where you can select a day and see previously logged meals as well as past photos	Alpha	Alpha (finished in final)	Since we already have a weekly calendar on the home screen. We decided to only implement	Nicole (90%) Gina (10%)

				Monthly calendar	
Data Visualization	Fetches from logged meals in Firestore and parses the data to populate weekly and monthly graphs for each nutrition category (used in both the main home page and detailed visualizations page)	Stretch goal	Beta (finished up in final)	N/A	Gina (100%)
Meal Mentor Chat Assistance	Talk to an AI-powered chat assistant that can give you personalized responses based on your current day's nutrition, settings, and personalized onboarding data.	Beta	Beta	N/A	Huyen (100%)
Settings	Dark mode, response length preference settings, and change password	N/A	Beta	N/A	Huyen (20%) Bowen (80%)
Profile page	Profile page that lists user's name, height, weight and age. Upload profile picture and option to logout. Dietary information section allows users to change their allergies, nutrition focuses, dietary restrictions, and goals.	Alpha	Alpha	N/A	Bowen (100%)
Daily Notifications	Breakfast, lunch, and dinner notifications triggered at different times throughout the day if you haven't logged your meals	N/A	Final	N/A	Huyen (100%)

	yet.				
Improve UI (App logo, fonts, colors, improve storyboard s)	Add fonts on all storyboards, change color scheme to blue & green, improve meal logging UI, add logo	Final	Final	N/A	Huyen (20%) Nicole (40%) Bowen (40%)