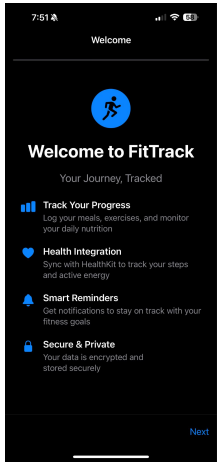
FitTrack

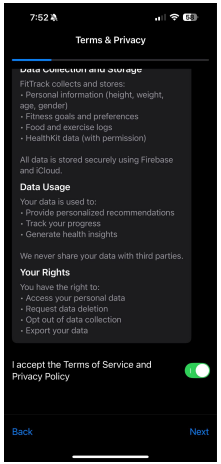
A Simple Fitness Companion

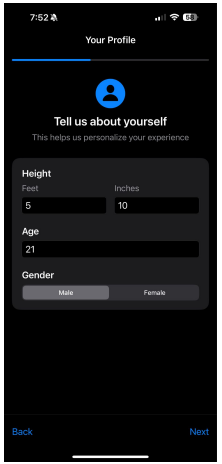
Designed & Developed By: **Nolan J. Wira**

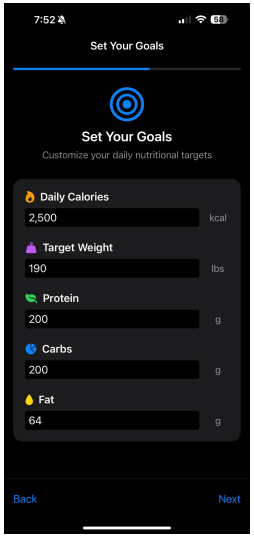
Project Overview

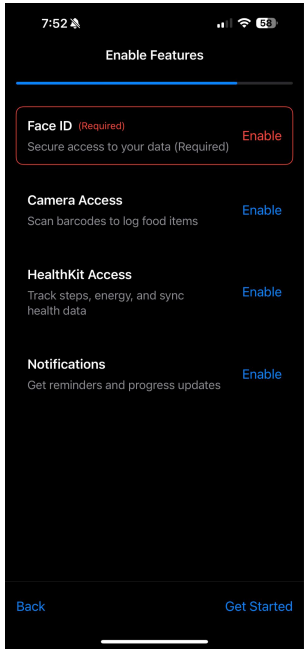
- iOS fitness tracking application built with Swift
- Focus on simplicity and user experience
- Integration with HealthKit and Firebase
- Real-time data synchronization

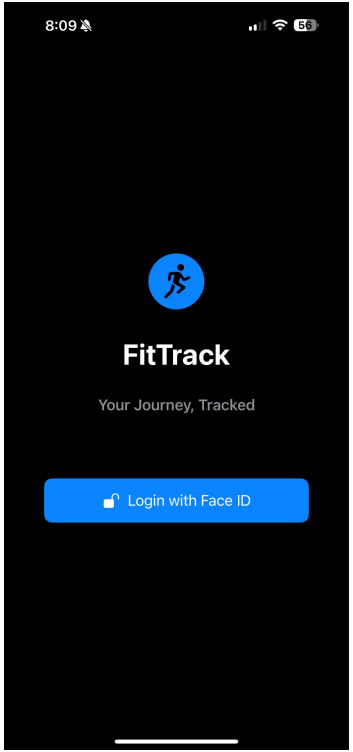












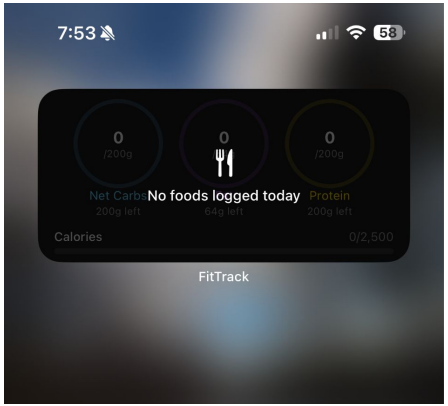
Key Features

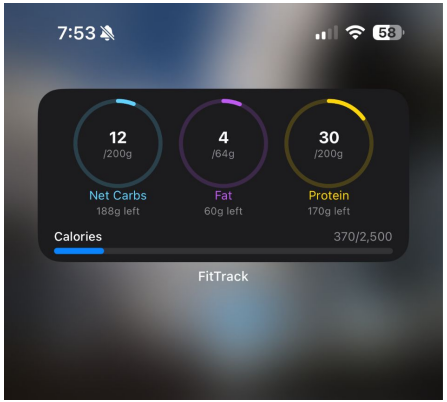
Core Functionality

- Food logging with barcode scanning
- Exercise tracking
- Weight progress monitoring
- HealthKit integration

Technical Features

- Firebase Realtime Database
- iOS Widget support
- Biometric authentication





Challenges Faced

HealthKit Integration

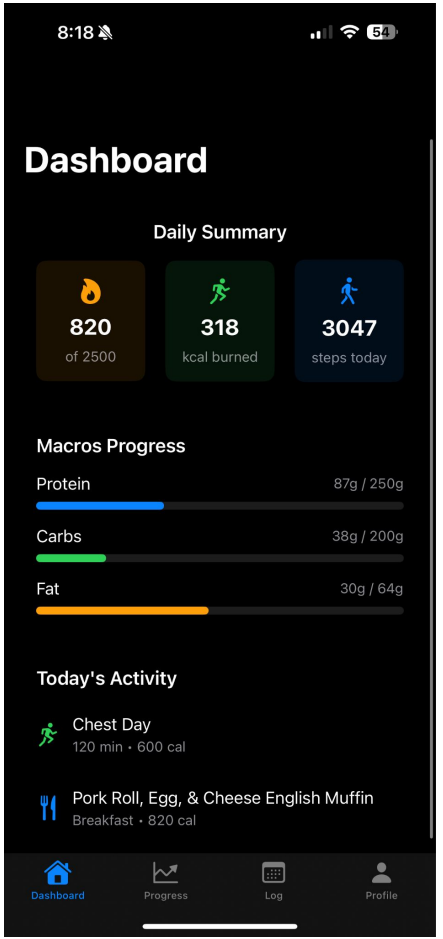
Maintaining persistent access and handling background updates

UI Implementation

Complex calendar view implementation and scroll behavior

Data Synchronization

Managing real-time updates and offline functionality



Third-Party Libraries

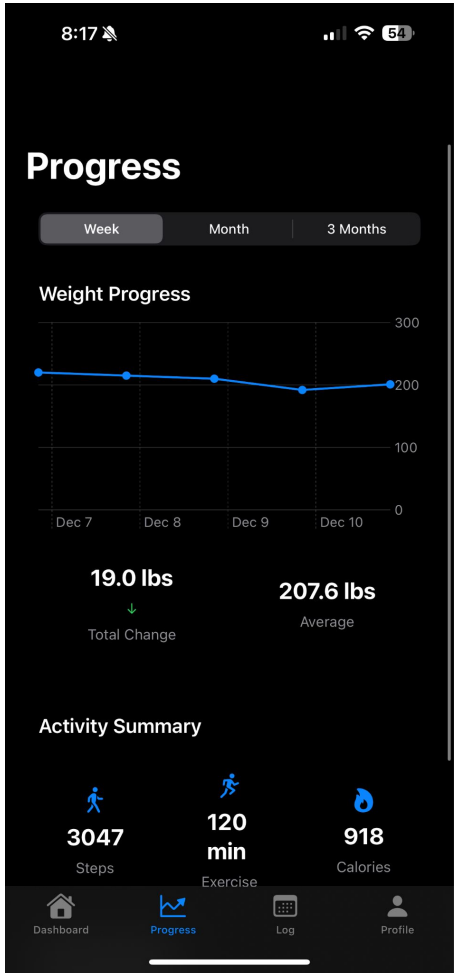
Firebase SDK
Backend services and real-time database

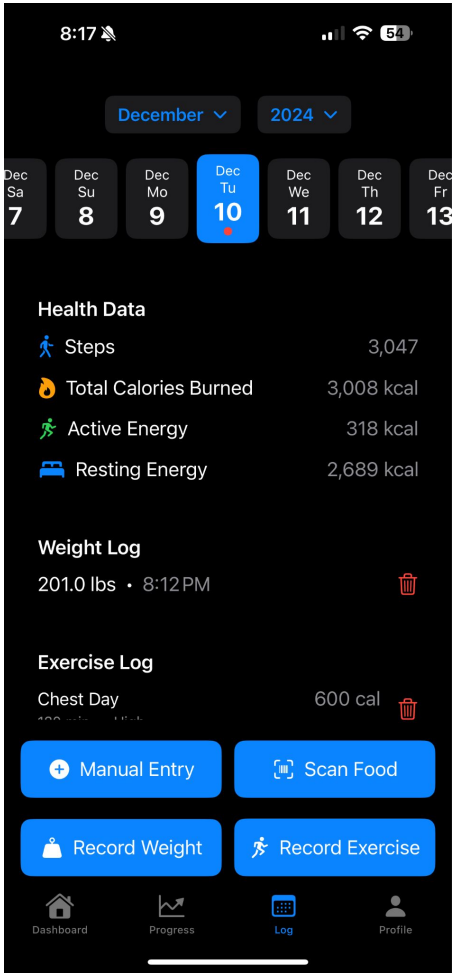
HealthKit
Health and fitness data integration

OpenFoodFacts API
Food database and barcode scanning

WidgetKit
iOS home screen widget implementation

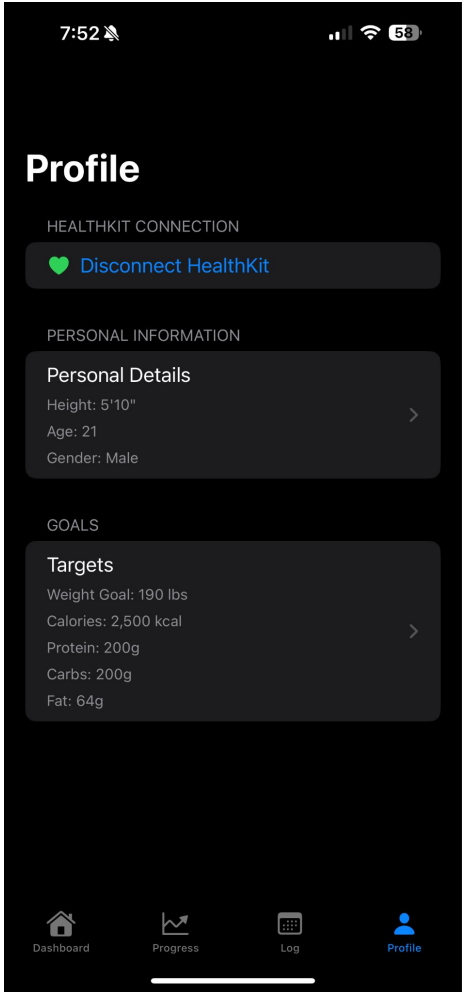
UserNotifications
Local notification handling and scheduling





Lessons Learned

- Importance of proper state management in iOS applications
- Value of user feedback in UI/UX design
- Benefits of modular code architecture
- Significance of thorough testing with health-related features



ANY QUESTIONS?