NutriScan

Introduction

NutriScan is a **Flutter-based** nutrition tracking app designed to help users **search**, **track**, **and manage** their daily food intake. It fetches real-time **nutritional information** from API Ninjas, allowing users to check **calories**, **protein**, **and other nutrients**. Users can **save food details**, track calories, and manage their profile. All data is securely stored in **Firebase Firestore**, ensuring seamless access across devices.

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Problem Statement



Tracking daily nutrition is often complex, time-consuming, and inaccessible. Existing solutions are either complicated or inefficient. Users need a simple, fast, and user-friendly app to easily access and log nutritional information for a healthier diet.

Project Overview

Key Features of NutriScan

Introducing NutriScan: a smart nutrition tracking app designed to help users easily monitor their dietary intake. Key features include: **Search Functionality** for retrieving detailed nutritional information, **Saved Food Information** for quick reference, **Calorie Tracking** for effective daily intake management, and **User Profiles** for secure authentication and personalized data access.



Technical Details

Technical Details: **Data Source** is from API Ninjas, and **Data Storage** is securely managed in Firebase Firestore, ensuring reliability and security for all user data.



Project Flow







User Experience Components

The user experience is designed to be intuitive and efficient, featuring the following components: Home Page with a search bar for users to input food items, displaying nutritional details such as calories and protein from API Ninjas; Saved Page for users to save frequently consumed food items; Calorie Tracker to monitor daily calorie intake; and Profile Management

Data Security

All user data is securely stored in **Firebase Firestore**, ensuring privacy and data integrity.

Navigation Flow

Sign Up/Login allows users to create an account or log in; Search and Save enables users to search for food items, view nutritional information, and save details; Track and Manage allows users to track their calorie intake and manage their profiles seamlessly.

Tech Stack

♦ Frontend: Flutter (Dart) for a responsive UI

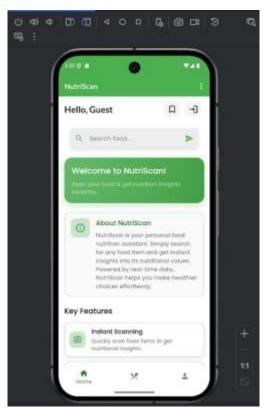
♦ Backend: Firebase Firestore for data storage

♦ API: API Ninjas for real-time nutrition data

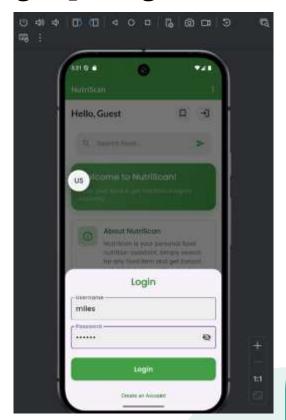
♦ State Management: Provider (or setState) for managing app state

Screenshots And Demo

Home Page



Signup / Login Form



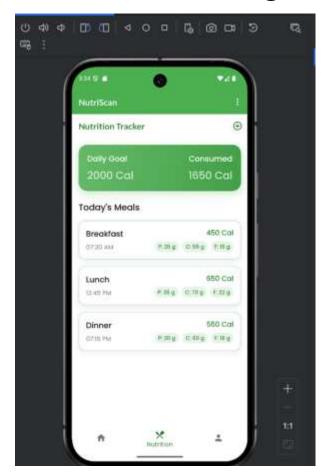
Nutrition Details Page



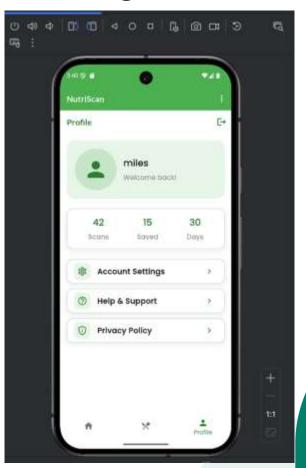
Saved Page



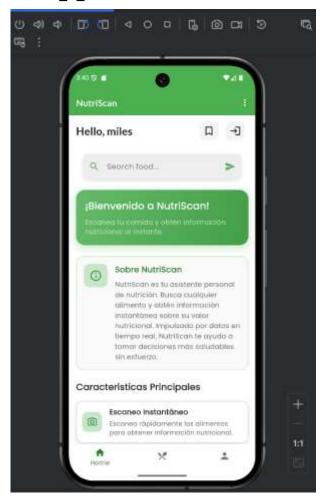
Nutrition Tracker Page



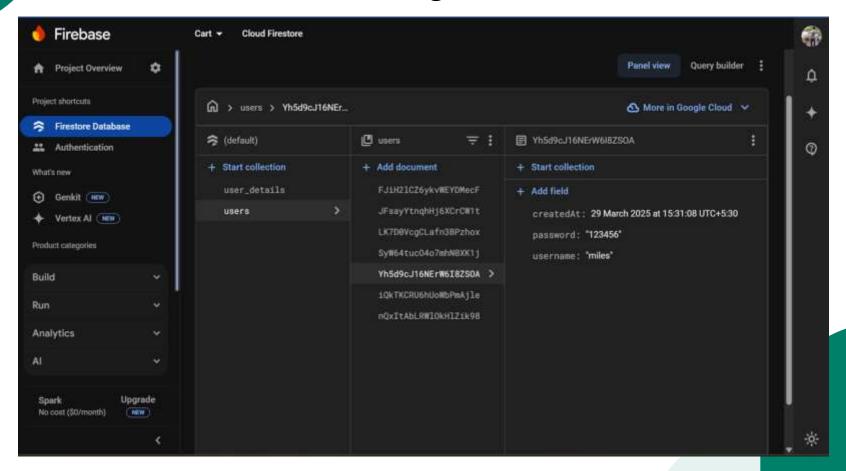
Profile Page



Localization Support



Firestore Database - User Login Details



Conclusion

NutriScan simplifies nutritional tracking by providing quick, accurate, and accessible food insights. With a user-friendly interface and real-time data retrieval, it helps individuals make informed dietary choices effortlessly. Future enhancements may include meal planning, barcode scanning, and expanded food databases for an even better experience.

Thank You!