NutriScan - Development Roadmap

Overview

Timeline: May 25 - June 16 (~3 weeks)

Goal: Launch NutriScan - a mobile app that reveals ingredient data, research, and discussion via

barcode scanning.

Week 1: Foundation & Core Logic (May 25-31)

- Set up Ionic + Angular project (cross-platform)
- Connect Firebase (Authentication, Firestore, Functions)
- Implement anonymous login and random username generator
- Configure Firestore structure (ingredients, discussions, etc.)
- Integrate barcode scanner (@ionic-native/barcode-scanner)
- Fetch product data from Open Food Facts API
- Display list of ingredients

Week 2: Ingredient Pages & Community (June 1-7)

- Create Ingredient Detail UI with tabs: Studies, News, Discussions
- Firestore integration for discussions (post, reply, upvote)
- Style Reddit-like threaded comments
- Set up Cloud Functions to fetch studies (PubMed/Semantic Scholar) and news
- Cache content in Firestore

Week 3: Enhancements, Polish & Launch Prep (June 8-16)

- Implement AI-generated study/article summaries (NLP/API)
- Add bookmarks/watchlist (local or Firestore)
- Add dietary filters (e.g., allergen flags)
- Offline caching for last 5 viewed ingredients
- Refine UI/UX (animations, spacing, fonts)
- Add AdMob for monetization
- Performance optimization

Ingredient Insight - Development Roadmap

- Final testing on Android devices
- Prepare Play Store assets (description, screenshots, icon)
- Submit to Play Store by June 14

Key Tools & APIs

Purpose	Tool/Service
Barcode -> Ingredients Open Food Facts API	
Research Studie	es PubMed or Semantic Scholar API
News Articles	Google News API / Scraper
Auth	Firebase (Anonymous)
Data Storage	Firebase Firestore
Comments/Threads Firestore + Usernames	
Ads	AdMob
Summarization	OpenAl API / NLP Summarizer
UI Framework	Ionic + Angular