SneakTrack Overview

Project Goals

- Monitor product availability across multiple retailers in real time.
- Provide instant notifications for restocks, raffles, and price drops.
- Enable personalised alerts based on size, brand, and sneaker model.
- Empower users with actionable data to improve purchase success.
- Offer cross-platform accessibility (mobile, web, desktop).

Architecture Diagram

Client (Web/Mobile) -> Next.js API Routes -> Firebase Functions -> Retailer APIs/Scrapers |-> Firebase Firestore (Real-Time Sync + Caching) -> Notifications (FCM)

Mock UI Preview

Homepage shows:

- Sneaker Cards with images, prices, and availability
- Retailer links
- Wishlist + notification buttons
- Real-time restock indicators

Stack Used

- Frontend: Next.js (TypeScript, Tailwind CSS)
- Backend: Firebase Functions (Node.js, Firestore)
- Scraping: Puppeteer (planned)

Development Status

Scrapers under dev - mock data used for GradEX