PROJECT SUMMARY.md 2025-07-22

Project Summary: Tofa

Overview

Tofa is a modern e-commerce web application built with Next.js (App Router), TypeScript, Tailwind CSS, and Prisma ORM. It features robust authentication, a clean UI/UX, and a scalable backend with PostgreSQL. The project is ready for deployment on Vercel and uses Neon.tech for managed Postgres.

Tech Stack

- Frontend: Next.js (App Router), TypeScript, Tailwind CSS
- Backend: Next.js API routes, Prisma ORM
- Database: PostgreSQL (Neon.tech)
- Authentication: NextAuth.js (Google OAuth, credentials)
- UI Libraries: Lucide icons, Radix UI, custom components
- **Deployment:** Vercel

Folder Structure (Key Parts)

- app/ Main app pages, layouts, and API routes
- components / UI components (navbar, footer, product card, admin dashboard, etc.)
- contexts/ React context providers (auth, cart)
- lib/ Utility functions and Prisma client
- prisma/ Prisma schema and migrations
- scripts/ Database seed and init scripts
- public/ Static assets
- styles/ Global styles

Database Schema (Prisma)

- **User**: id, name, email, password, image, role (ADMIN/CUSTOMER), createdAt
- Product: id, name, description, price, image, category, stock, createdAt
- Order: id, userld, total, status, createdAt
- OrderItem: id, orderId, productId, quantity, price
- Cartitem: id, userld, productld, quantity
- **Settings**: id, key, value
- Enums: Role, Category, OrderStatus

Authentication Flow

- **NextAuth.js** with Google OAuth and credentials (email/password)
- Prisma Adapter auto-creates users on first login
- JWT sessions for stateless auth

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Custom login/register API for credentials

Main Features

- User registration and login (Google, email/password)
- Product listing, filtering, and details
- Shopping cart (add, update, remove items)
- Order placement and order history
- Admin dashboard (manage products, orders, users)
- Responsive, minimal UI/UX

Context Providers

- AuthContext: Handles user state, login, register, logout
- CartContext: Manages cart state, add/remove/update items

UI/UX Libraries

- **Tailwind CSS**: Utility-first styling
- Radix UI: Accessible UI primitives
- Lucide Icons: Icon set
- Custom Components: Navbar, footer, product card, admin sidebar, etc.

Deployment

- Vercel: For frontend and API hosting
- Neon.tech: For managed PostgreSQL database

Environment Variables (.env)

- DATABASE_URL Postgres connection string
- NEXTAUTH_URL App URL for NextAuth
- NEXTAUTH_SECRET Secret for NextAuth JWT
- GOOGLE_CLIENT_ID / GOOGLE_CLIENT_SECRET Google OAuth
- EMAIL_SERVER_USER / EMAIL_SERVER_PASSWORD For email login (if used)
- STRIPE_KEY For payment integration (if used)

Custom Logic & Notes

- Seed scripts: scripts/seed.ts seeds admin/customer users, products, orders, and settings
- API routes: Custom endpoints for auth, users, cart, products, orders
- Error handling: Prisma errors handled in API routes
- UI/UX: Modern, centered, floating header/footer, minimal product grid
- Admin: Separate admin pages for managing products, orders, users

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References

- See ENVIRONMENT_SETUP.md for environment setup
- See prisma/schema.prisma for full database schema
- See scripts/seed.ts for seed data
- See contexts/ for context providers
- See components/ for UI components

Generated on July 22, 2025