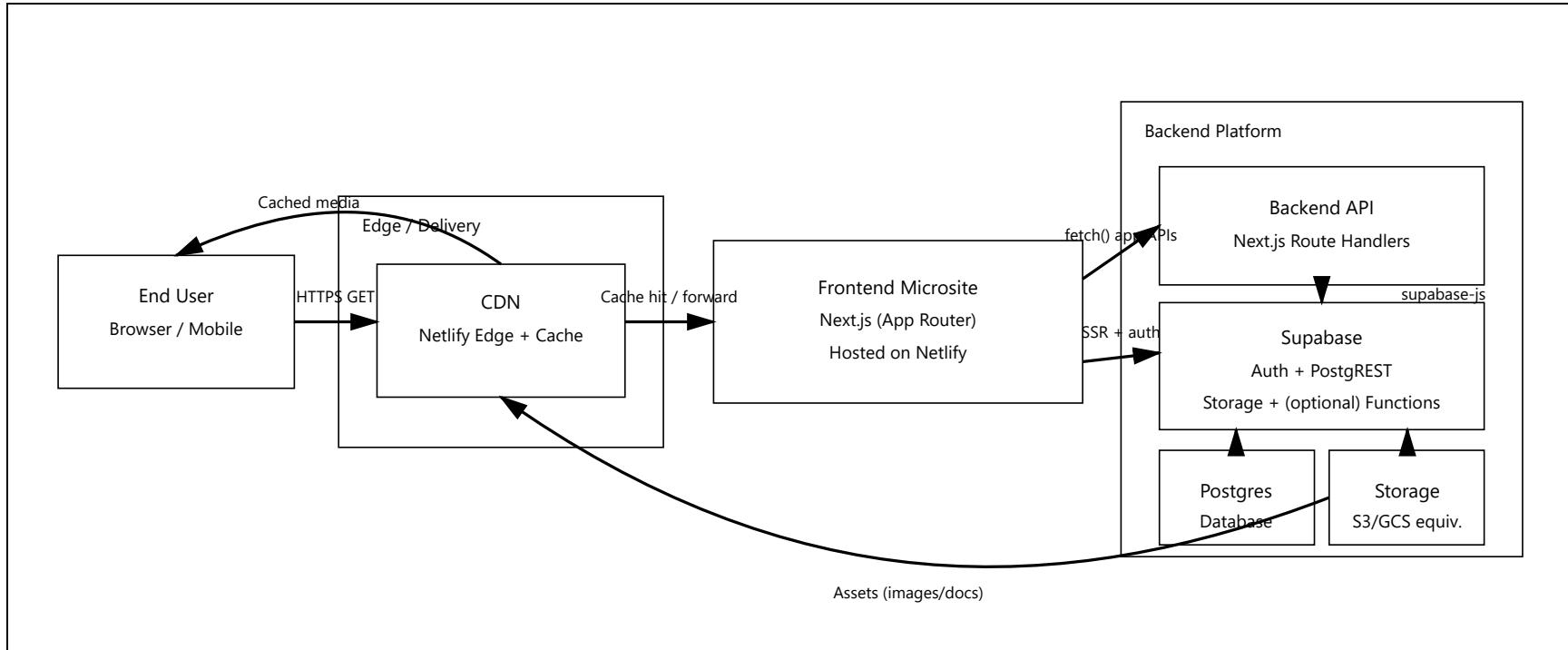


System Architecture Diagram

Themes & Motifs — frontend microsite, backend API, database, object storage (S3/GCS equivalent), and CDN

1) System Context (high level)



Request to **Next.js Route Handlers** (app-owned API)

Direct **Supabase** usage for SSR/auth/data access

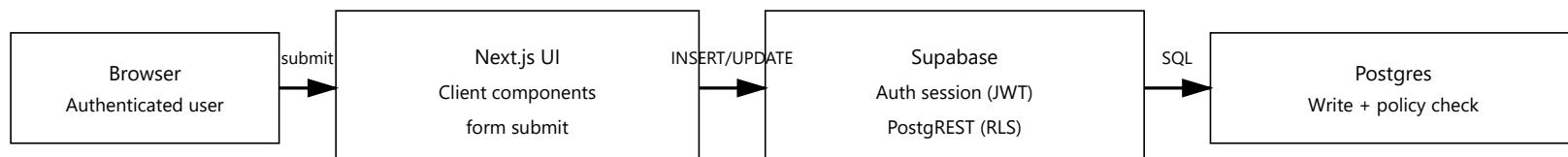
Storage is object storage (S3/GCS equivalent); typically delivered via CDN

2) Key Request & Data Flows (simplified)

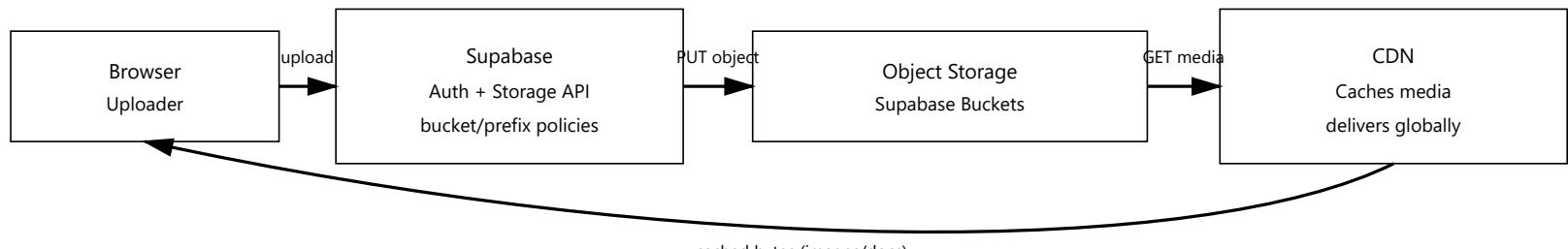
2.1 Public browse/search (read-heavy)



2.2 Authenticated writes (reviews, saves, inquiries)



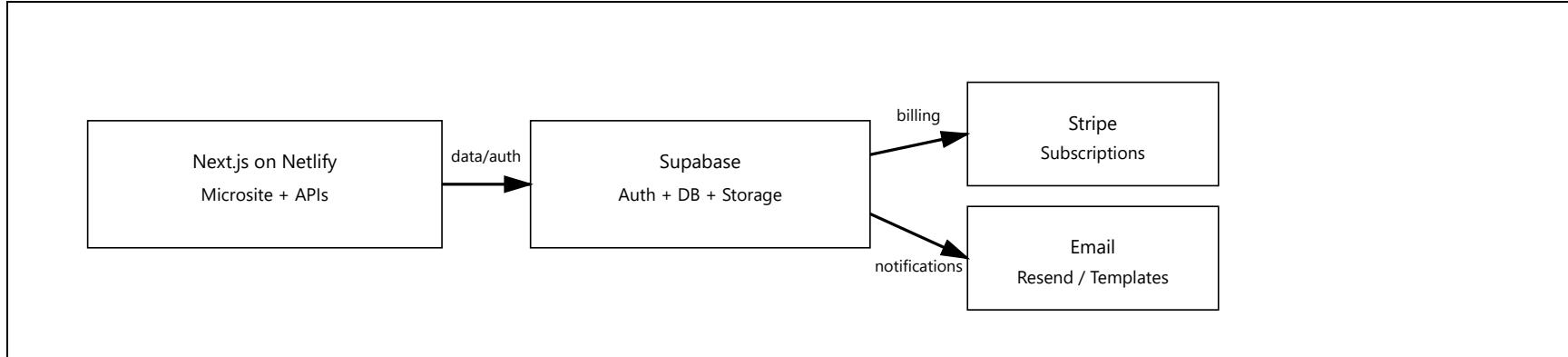
2.3 Media upload & delivery (images/docs)



3) Component Notes

- **Frontend microsite (Next.js on Netlify)**
 - Renders the public directory experience (vendors, promos, categories, detail pages).
 - Uses Server Components/SSR for SEO-friendly pages and fast first paint.
 - Uses Route Handlers for app-owned endpoints (e.g., filtered vendor search, admin patch endpoints).
- **Backend API**
 - Implemented primarily as **Next.js Route Handlers** under `src/app/api/**`.
 - Calls Supabase using either:
 - **Anon key** (public reads constrained by RLS), or
 - **Service role key** (admin-only actions; bypasses RLS and must remain server-only).
- **Supabase (backend platform)**
 - **Auth** provides login/session management and role-based access.
 - **PostgREST** provides table access with RLS and policies as the primary security layer.
 - **Storage** provides buckets for images and documents (functionally equivalent to S3/GCS object storage).
 - **(Optional) Edge Functions** can be used later for workflows needing secrets or non-PostgREST logic (e.g., Stripe webhooks, email triggers).
- **Database (Postgres)**
 - Primary system of record for vendors, promos, taxonomy, users/roles, reviews, inquiries, saves, and onboarding/verification workflows.
- **Object storage (S3/GCS equivalent)**
 - Stores binary assets (vendor galleries, promo images, profile photos, verification documents).
 - Policies enforce bucket-level and path/prefix constraints (e.g., `<vendor_id>/...`).
- **CDN**
 - Serves cached HTML/JS/CSS for the microsite and cached media assets for faster global delivery.

4) Optional External Integrations (planned)



These integrations are optional and can be added later via Supabase Edge Functions or server-side endpoints.

Generated as static HTML with inline SVG diagrams (no Mermaid dependency).