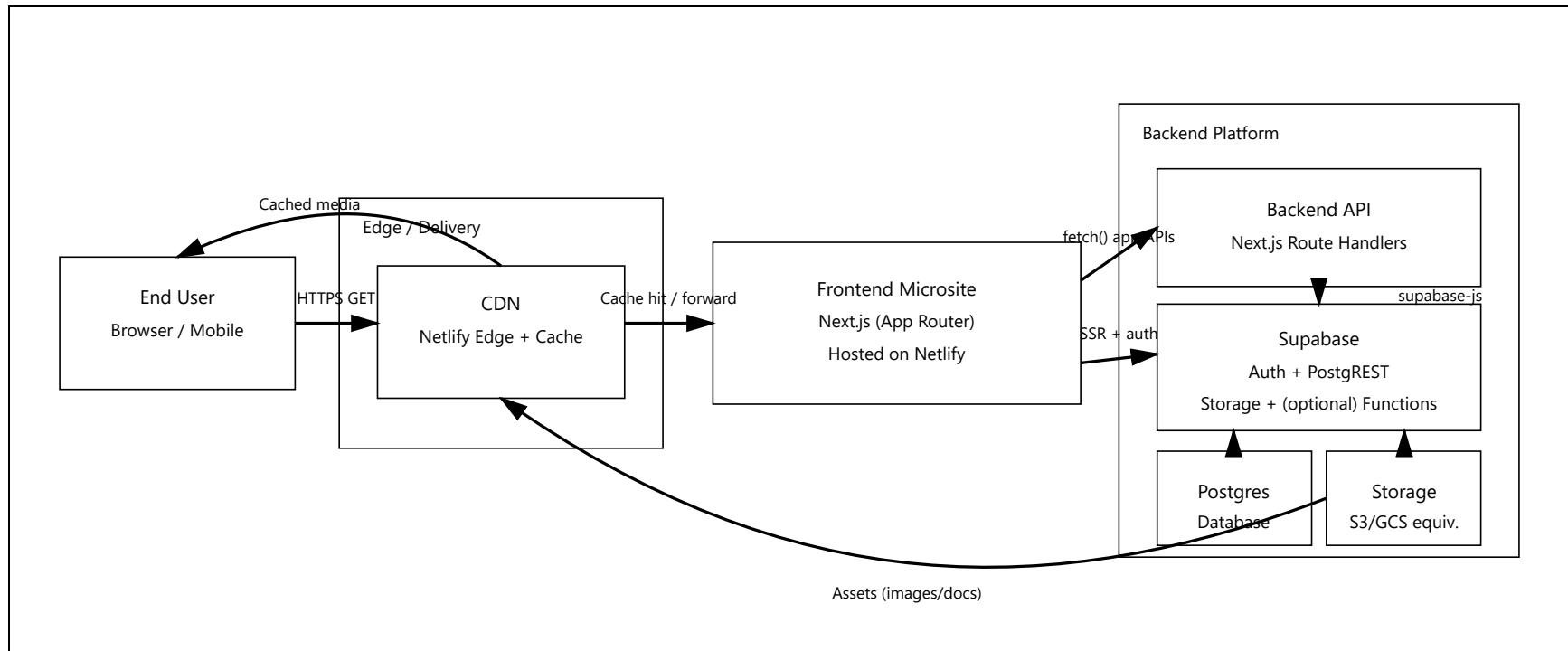


# System Architecture Diagram

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

## 1) System Context (high level)



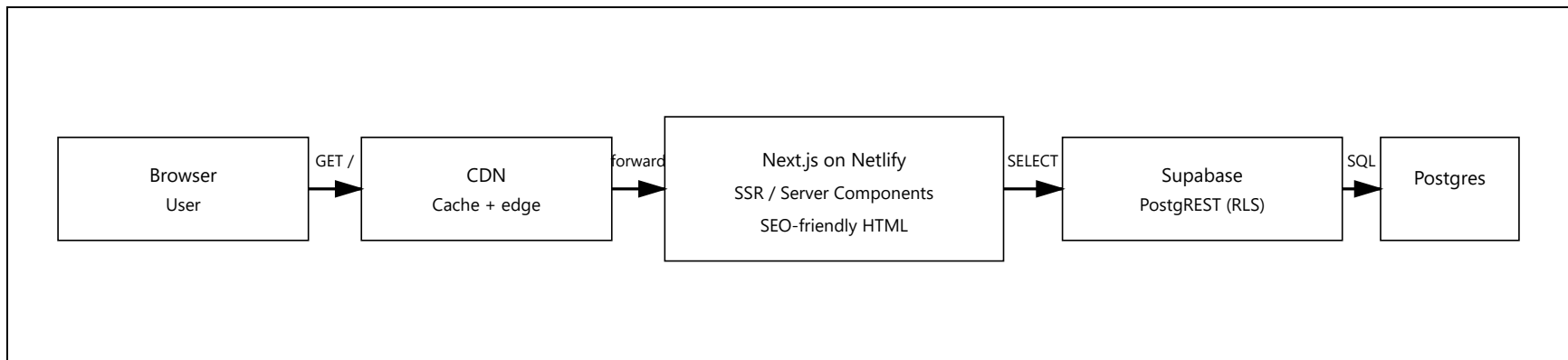
☐ Request to **Next.js Route Handlers** (app-owned API)

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

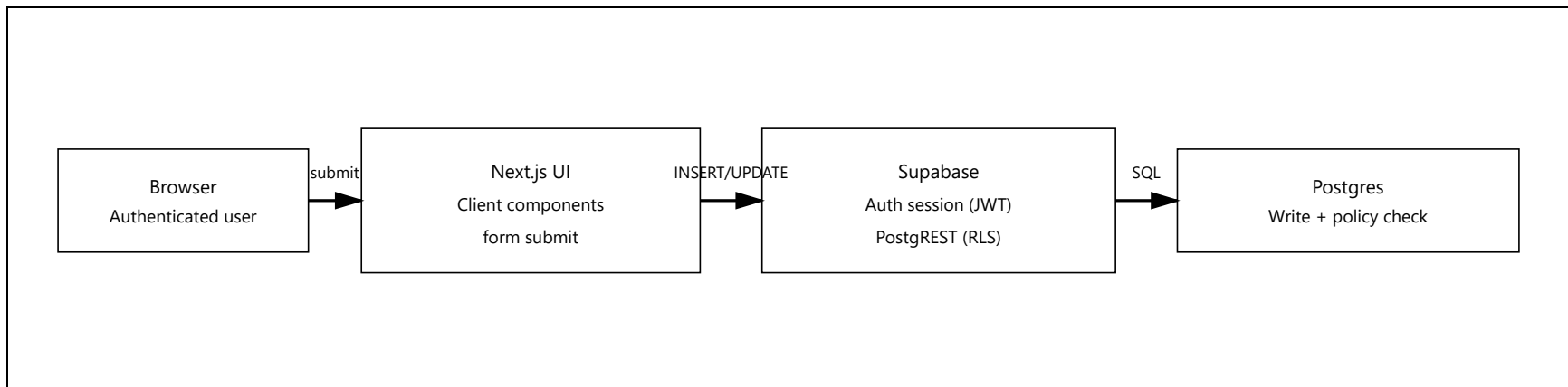
☐ **Storage** is object storage (S3/GCS equivalent); typically delivered via CDN

## 2) Key Request & Data Flows (simplified)

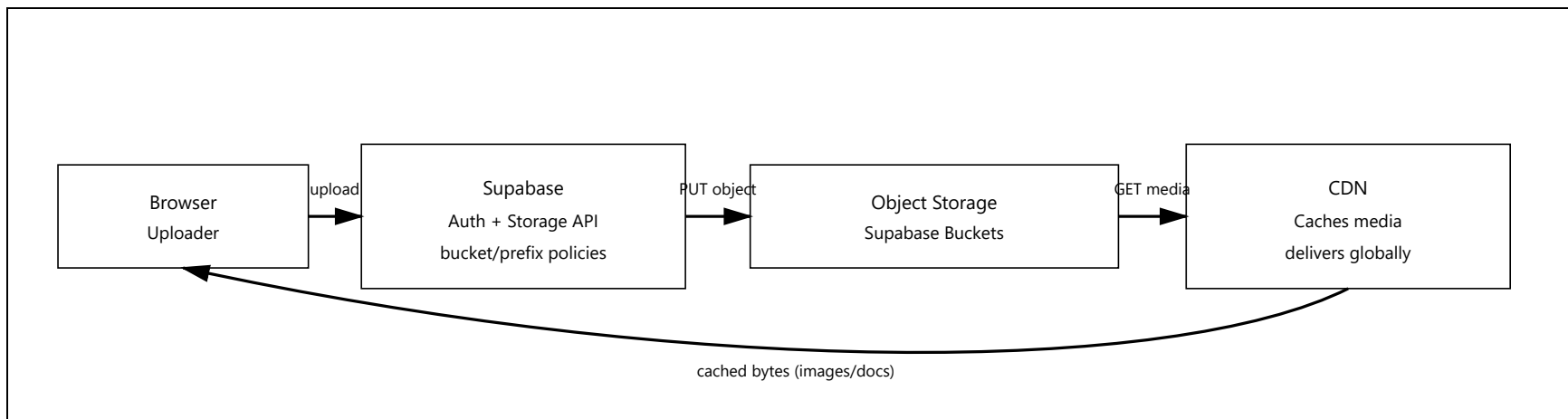
### 2.1 Public browse/search (read-heavy)



## 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)**

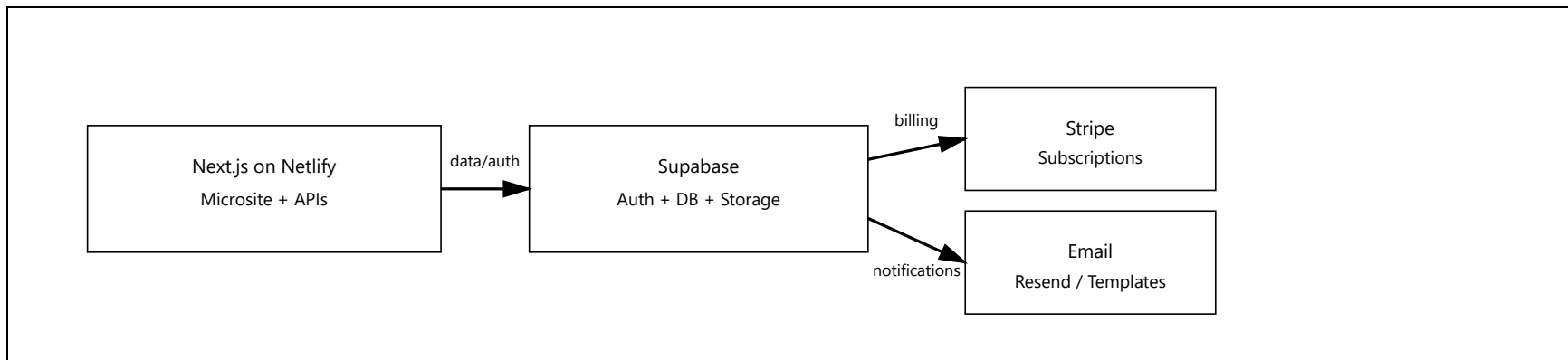
- Stores binary assets (vendor galleries, promo images, profile photos, verification documents).
- Policies enforce bucket-level and path/prefix constraints (e.g., `<vendor_id>/...`).

- **CDN**

- Serves cached HTML/JS/CSS for the microsite and cached media assets for faster global delivery.

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### 4) Optional External Integrations (planned)



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

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