

ZimEstimate - App Summary

Generated: 2026-02-03

What It Is

ZimEstimate is a Next.js web app for construction cost estimation and project management in the Zimbabwean market. It helps users build bills of quantities (BOQs), track costs, and manage construction projects.

Who It's For

Primary users are Zimbabwean homebuilders or small contractors managing residential construction budgets, materials, and timelines.

What It Does

- Build BOQs manually and organize line items by category.
- Analyze floor plan uploads with Gemini vision to extract rooms and measurements (AI takeoff).
- Manage projects with BOQ, tracking, documents, planning, and usage tabs.
- Track purchases, actual vs budgeted costs, and material usage.
- Browse a marketplace of suppliers and materials with price comparisons.
- Export BOQs to PDF and other formats (per PRD export options).

How It Works

- UI: Next.js App Router pages in src/app with reusable UI in src/components.
- Data: Supabase client in src/lib/supabase.ts; project CRUD in src/lib/services/projects.ts.
- DB: Tables and decisions documented in PRD.md (projects, boq_items, materials, suppliers, etc.).
- Vision: POST /api/vision/analyze calls src/lib/vision/gemini-client.ts (Gemini).
- Export: src/lib/pdf-export.ts generates BOQ PDFs with jsPDF.

How To Run

- Create .env.local with NEXT_PUBLIC_SUPABASE_URL and NEXT_PUBLIC_SUPABASE_ANON_KEY (see .env.local.example).
- Optional: set GOOGLE_GEMINI_API_KEY for AI vision (used by /api/vision/analyze).
- Run npm run dev (README.md).
- Open <http://localhost:3000> in a browser (README.md).
- Dependency install command: Not found in repo.