![](data:None;base64,)

University of Ghana Mentorship Hub – Project Documentation

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# 1. Introduction

The University of Ghana Mentorship Hub is a web application designed to bridge the gap between students and lecturers through structured mentorship, combining digital and in‑person modalities.

# 2. Objectives and Scope

Objectives include rule-based mentor matching with mentor approvals, session scheduling, messaging, resource libraries, alumni micro‑mentorship, analytics, and consent-aware data handling.

Scope covers the Vite + React + TypeScript frontend integrated with Supabase for auth, data, and storage; production deployment on Vercel.

# 3. Architecture

## 3.1 High-Level

Client: Vite + React + TypeScript SPA on Vercel. Backend services: Supabase (PostgreSQL, Auth, Storage). Data fetching & caching: React Query.

## 3.2 Stack

React 18, TypeScript, Vite, React Router 6, @tanstack/react-query, Supabase JS, shadcn/ui + Radix UI, Tailwind CSS, Recharts.

# 4. Data and Integrations

Supabase is used for authentication, Postgres database, and Storage. Environment variables: VITE\_SUPABASE\_URL, VITE\_SUPABASE\_ANON\_KEY.

# 5. Features

Matching (rule-based), scheduling, messaging, resources, analytics (session frequency, response times, satisfaction), consent & role-based access, alumni micro‑mentorship.

# 6. Security & Privacy

Supabase Auth with JWTs, client-only anon key exposure, planned RLS policies, consent capture, anonymized analytics.

# 7. Deployment

Vercel preset: Vite; Root: ug-mentorship-hub-main; Build: npm run build; Output: dist; SPA rewrites via vercel.json. Env vars: VITE\_SUPABASE\_URL, VITE\_SUPABASE\_ANON\_KEY.

# 8. Roadmap

Short term: matching & approvals, booking, resource uploads, basic analytics. Medium: alumni micro‑mentorship, offline bundles, admin tooling. Long: push/SMS, predictive matching, institutional reporting.

# 9. References (APA)

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