05 · LIVE · PERSONAL PRODUCT

# Athar Fadwa أثر فدوى

A bilingual Arabic/English Islamic companion app: Quran with per-ayah recitation, a 29K-hadith library, prayer times with push athan, spaced-repetition memorization and an LLM assistant.

ROLE Sole builder — product, backend, data, AI integration and deployment (Dec 2025 – Jun 2026)

LINK atharfadwa.xyz

STACK React 19 · Vite · Tailwind · tRPC · Express · Supabase Postgres · Gemini models · Web Push · node-cron · Vitest · GitHub Actions

| 6,236 | 29,357 | 14,109 | 37 | 0 → 1,748 | ~158 |
|---|---|---|---|---|---|
| ayahs | hadiths · 6 books | tafsir entries | Postgres tables | Arabic search matches | automated test cases |

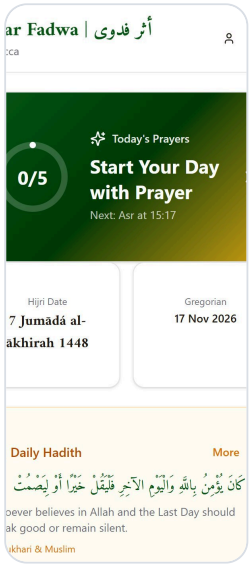
## THE PROBLEM

Daily practice tools are spread across separate apps: Quran reader, hadith search, prayer times, Qibla, athkar and memorization. Athar Fadwa puts them in one Arabic-first, installable PWA that also reminds you.

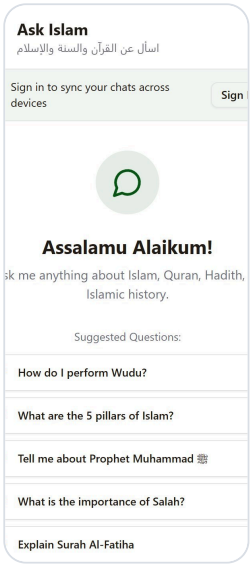
## WHAT I BUILT

- **"Ask Islam" LLM assistant.** A Gemini model with bilingual persona prompts that require surah and verse citations, named hadith sources and deferral to scholars on rulings, plus a location-aware prayer assistant.
- **Content platform.** 6,236 ayahs, 29,357 hadiths and 14,109 tafsir entries in Postgres, a per-ayah audio engine (~146 KB files instead of whole-surah MP3s of hundreds of MB) with word-by-word highlighting, and SM-2 memorization with Tajweed colour-coding.
- **Verification harness.** Built largely by directing AI coding agents (Manus, Claude Code), then hardened with a harness that calls every API procedure against the live database — it caught 5 silently broken features in one pass.
- **Push that actually arrives.** Fixed a split data layer (schedulers reading an empty legacy DB) and a service-worker build conflict so athan, Quran and memorization reminders reach devices.

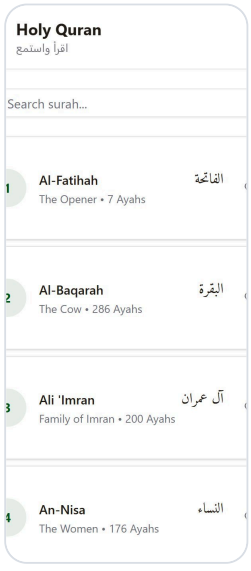
## SCREENS



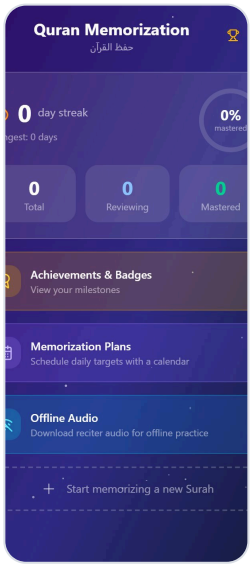
Home



Ask Islam assistant



Quran reader



Memorization