

# Project Inventory

## At a Glance

- Skimmable map of the repo: folders, high-impact files, and entrypoints.
- Recommended reading path (docs-first and code-first).
- Fast pointers to cron, queue, routines, and PWA service worker.

## Table of Contents

Right-click and update field to generate TOC.

### 1. Folder Map

Path	Purpose	Notes
app/	Next.js App Router root (pages + API routes)	(auth), (main), api/ route handlers
app/(auth)	Authentication pages	Login / signup flows
app/(main)	Main authenticated views	Reminders, calendar, routines, settings
app/api	Next.js Route handlers	Cron runner, push mapping, routines
components/	React components	auth, calendar, notifications, providers, ui
functions/src/	Firebase Cloud Functions	Email/SMS fallbacks, test triggers
lib/	Core business logic	Firebase setup, managers, utilities
public/	Static assets	sw.js, manifest.json

### 2. Top Files Inspected

#### Cron & Queue

- app/api/cron/run/route.ts - Minute-runner + daily routine generator trigger
- lib/notificationQueue.ts - Queue sync and precomputation logic
- lib/queueSync.ts - Client/server bridge for queue items

#### Routine Generation

- lib/routineGenerator.ts - Deterministic 24h rolling generation logic
- app/api/routines/[id]/run/route.ts - Manual enable catch-up endpoint

Core Data Managers

- lib/reminders.ts - Reminder CRUD + queue syncing
- lib/routines.ts - Routine CRUD logic

Service Worker & PWA


- public/sw.js - Push display + click handling
- app/layout.tsx - PWA metadata + SW registration provider

Configuration

- firebase.json
- firestore.indexes.json
- firestore.rules

3. Where to Start Reading

Path	Best for	Why start here
01_Product_Technical_Overview	Product + exec overview	Fast understanding of features + system behavior
02_System_Map	Architecture + flows	Critical paths: Reminder→Queue→Cron→Push
04_Backend_Guide	Ops + backend logic	Firestore model + cron/queue mechanics
03_Frontend_Guide	UI + state	Providers, flows, SW registration
05_Push_Notifications	End-user setup	Practical setup + troubleshooting

 **Key Insight: Key Entrypoints (start here when debugging)**

- Minute runner: app/api/cron/run/route.ts
- Queue precompute/sync: lib/notificationQueue.ts + lib/queueSync.ts
- Routine generation: lib/routineGenerator.ts (+ manual run endpoint)
- Push UX: public/sw.js (display/click) + Settings enable flow