

Practice Timer - App Summary

What it is

Practice Timer is a React/Vite web app for running practice sessions with Pomodoro-style work and break cycles, notifications, and PWA support. It focuses on reliable timing across desktop and mobile browsers, including iOS.

Who it's for

Not found in repo.

What it does

- Pomodoro-style work and break timer with customizable durations
- Iteration tracking across multiple work/break cycles
- Sound alerts when sessions complete
- Browser notifications for completion events
- PWA install support with service worker caching
- iOS background optimizations (background timer and wake-lock strategies)
- Dark mode and responsive layout for desktop and mobile

How it works

- UI: React app in 'client/src' styled with Tailwind; entry point in 'client/src/main.tsx'.
- State: Zustand store in 'client/src/stores/timerStore.ts' holds timer state and settings.
- Timing: Web Worker in 'client/src/workers/timerWorker.ts' drives ticks and completion messages.
- Background: Service worker 'client/public/sw.js' caches assets and runs background sync/notifications; registered in 'client/src/main.tsx'.
- Persistence: Settings stored in localStorage via 'client/src/lib/localStorage.ts'.
- Data flow: UI -> Zustand store -> Web Worker -> store -> UI; store posts updates to service worker for background handling.

How to run

- Install Node.js v16+ (prerequisite from README).
- Run 'npm install' from the repo root.
- Run 'npm run dev' to start the Vite dev server.