

# 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.