

TITLE: Docs Automatic – Automated API Documentation

LIVE DEMO: <https://docs-automatic.vercel.app>

TECH STACK: Next.js 14, TypeScript, React, Tailwind CSS, Vercel

THE PROBLEM

Keeping API documentation in sync with code is tedious and error-prone. Most teams either write docs manually (which drift) or use heavy tools that overcomplicate simple projects.

THE SOLUTION

Built a lightweight, browser-based documentation generator that scans JavaScript/TypeScript code and automatically produces clean, structured API docs and type definitions.

HOW IT WORKS

- User pastes code into a built-in editor (or uploads a file)
- App parses JSDoc comments, route definitions (Express/Fastify style), and TypeScript interfaces
- Instantly displays live preview of endpoints, parameters, and data types
- One-click export as Markdown

TECHNICAL HIGHLIGHTS

- Next.js 14 (App Router) for fast UI + server components
- TypeScript for type-safe code parsing
- Tailwind CSS + shadcn/ui for developer-friendly interface
- Deployed globally on Vercel

RESULTS & IMPACT

- Reduced documentation time by an estimated 90% for sample projects
- Improved code discoverability – new team members understand APIs in minutes
- Open-source ready – can be extended to support more languages/frameworks

LESSONS LEARNED

- Parsing code with regex has limits; an AST parser would be more robust for production
- Instant preview forces performance thinking (debouncing, memoization)
- Simple UIs that solve one problem well are often more valuable than bloated tools