

PROJECTS

SysDem

A WYSIWYG System Designer That Ships AI-Ready Docs

Architect / Designer · 2026

SysDem is a macOS-native WYSIWYG system-architecture designer: builders assemble production-quality diagrams by dragging from a curated component library and remixing templates, and every diagram is bound to a structured documentation artifact — PRD, ADR or build guide — that can be exported or piped straight into AI coding agents.

1. Overview

System-design tooling splits into drawing-first tools (total visual freedom, no structure, docs as an afterthought) and code-first tools (version-controllable but a steep authoring curve, hostile to non-engineers). SysDem closes the gap: a native canvas where you assemble diagrams from a curated, opinionated component library, and where the diagram and the architecture document are two views of the same model. Its one-line pitch — Figma for system design, except the canvas writes the docs and the docs write the canvas.

2. Key Features

- **Library-First Canvas** Build production-quality diagrams by dragging from a curated component library and remixing pre-built templates instead of drawing shapes from scratch.
- **Bidirectional Docs** Every diagram is bound to a structured documentation artifact — edit the canvas and the doc updates, edit the doc and the canvas follows.
- **Agent-Ready Export** Export PRDs, ADRs and build guides as machine-readable structure designed to be piped into AI coding agents — Claude, Codex, Cursor — not just screenshots.

- **Opinionated Patterns** Remixable, modern-stack patterns — auth flows, queues, RAG topologies — so common architectures aren't redrawn from zero on every project.
- **Design-Review Ready** Typed, semantic diagrams mean two engineers' boxes-and-arrows finally mean the same thing, so reviews debate the decision, not the drawing.

3. Architecture

SysDem is a macOS-native design tool built around a single shared model with two synchronized views — a visual canvas and a structured documentation artifact — so the two never drift apart. The canvas composes from a typed component library and template system; the documentation layer emits agent-ready PRD / ADR / build-guide artifacts as token-efficient, machine-readable structure intended as compiler input for AI coding agents. Currently in discovery / pre-build.

TECH STACK

macOS-native · Typed Component Library · PRD / ADR / Build-Guide Export · AI-agent-ready

LINKS

<https://www.jonathandumitru.com/projects/system>