

High Level Design – Project Ops V2

Overview

Project Ops Dashboard V2 is a central system to manage and monitor all projects: live cloud apps and projects in development.

It includes lifecycle tracking, priorities, next-action hints, and monitoring of cloud infra and Make.com automations.

Goals

Single view of all projects (live + in development).

Monitor Render / Netlify / MongoDB Atlas health and deploy status.

Track project lifecycle: idea → planned → in_development → ready_for_deploy → live → maintenance → on_hold.

Track priority + nextAction per project to know what to push next.

Monitor Make scenarios as services with success / error / stale status.

High Level Architecture

Frontend: React SPA (Vite) hosted on Netlify.

Backend: Node.js + Express on Render (REST API + schedulers).

Database: MongoDB Atlas with collections: projects, services, envVars, metrics, optional workItems.

Integrations: Render, Netlify, MongoDB Atlas APIs, and Make webhook for scenario run reports.

Key Components

Project Manager – stores lifecycle, priority, next actions, metadata.

Service Manager – stores all infra and automation services and their status.

Scheduler – cron jobs on Render calling internal /internal/sync/* endpoints.

Automation Monitor – receives Make run reports and marks scenarios as ok/failing/stale.