DevOps Pipeline Simulator (CI/CD Visual Runner)

A full-stack simulation tool to create, visualize, and run CI/CD pipelines with live status updates and streamed logs.

Features

Frontend (React + Vite + Tailwind + Framer Motion)
- Modern dashboard UI
- Sidebar navigation
- Collapsible sidebar with animation
- Page transitions
- Responsive design

Backend (Node.js + Express + MongoDB + Socket.io)
- REST APIs
- Real-time log streaming
- Pipeline execution simulation

CI/CD Logic

Pipeline -> Stage -> Job log streaming

Tech Stack

Frontend: React, Vite, TailwindCSS, Framer Motion, React Router
Backend: Node.js, Express, Socket.IO
Database: MongoDB

Setup Instructions
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1. Clone repo
2. Install server dependencies:
cd server
npm install
3. Configure .env:
MONGO_URI=mongodb://127.0.0.1:27017/devops-simulator
PORT=4000
4. Start backend:
npm run dev
5. Install client dependencies:
cd ../client
npm install
6. Start frontend:
npm run dev

Access at:
http://localhost:5173/