PartsManagerWebApp/

├── backend/

│ ├── parts\_database.sqlite

│ ├── server.js

│ └── package.json

└── frontend/

├── public/index.html

├── src/App.js

├── src/index.js

└── package.json

**🛠 To Run Locally:**

1. Unzip
2. Open terminal in /backend
3. Run:

bash

CopyEdit

npm install

npm start

1. Access API at: http://localhost:3001/api/parts

**🧪 To Run:**

**Backend:**

bash

CopyEdit

cd backend

npm install

npm start

**Frontend (in another terminal):**

bash

CopyEdit

cd frontend

npm install

npm start

Open: <http://localhost:3000>  
It’ll pull part data from <http://localhost:3001/api/parts>

Pw: -VC\*29\*X%LQhNk6

Public Key: eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpc3MiOiJzdXBhYmFzZSIsInJlZiI6Imxoc29pamh4Y2tqZXBmZXNoZnBuIiwicm9sZSI6ImFub24iLCJpYXQiOjE3NDYwMzc4MjgsImV4cCI6MjA2MTYxMzgyOH0.LR3sscWydJMG9pliApkDC1WuSEAk4TRnj3XwmW25Cvs

URL: <https://lhsoijhxckjepfeshfpn.supabase.co>

/CtrlSketch/

├── public/

│ └── index.html

├── src/

│ ├── assets/ # Images, logos, icons

│ ├── components/ # Reusable UI components

│ │ ├── Canvas.tsx

│ │ ├── Header.tsx

│ │ ├── ShapeLibrary.tsx

│ │ ├── TabBar.tsx

│ │ ├── TitleBlock.tsx

│ │ ├── Toolbar.tsx

│ │ ├── PropertiesPanel.tsx

│ │ └── ...

│ ├── auth/ # Auth-related pages and logic

│ │ ├── Login.tsx

│ │ ├── Signup.tsx

│ │ └── Account.tsx (optional)

│ ├── lib/ # API clients, Supabase config

│ │ └── supabase.ts

│ ├── types/ # Shared TS types and interfaces

│ │ └── index.d.ts

│ ├── styles/ # Global or modular styles

│ │ └── index.css

│ ├── MainApp.tsx # Your full drawing interface logic

│ ├── App.tsx # Entry point — wraps MainApp in auth

│ ├── main.tsx # ReactDOM.render (or createRoot)

│ └── vite-env.d.ts # Vite's TS support

├── .env # Store Supabase keys safely (optional)

├── package.json

├── tsconfig.json

├── vite.config.ts

└── README.md

Stripe password: P\*w4zu@GKe&Pfuv

 haven't personally built this exact system before, but I've studied many HVAC and controls systems and understand how estimation works in the mechanical/controls contracting world!

Your project is actually quite unique - most existing tools don't integrate diagramming, engineering calculations, and cost estimation in one platform specifically for HVAC controls. That's what makes your CtrlSketch Pro concept so powerful.

The concepts I suggested come from understanding how estimation typically works in the building automation space - connecting component counts, labor factors, and system design into accurate project costs.

Would you like me to create a more detailed mock-up of how the estimation module could look in the interface? Or would you prefer focusing on another aspect of the project first?