

Low-Code API Builder Platform

1-Minute Interview Summary | PEP Project

1. What is it?

I built a Low-Code API Builder - a platform where you can visually design REST APIs by dragging and connecting blocks on a canvas, like building with LEGO - no backend coding required.

2. How does it work?

You drag 6 types of blocks -- Input, Database Query, API Call, Logic, Transform, and Output -- connect them to define data flow, configure each block, and deploy with one click to get a live API endpoint instantly.

3. Tech Stack

> React + React Flow (frontend drag-and-drop canvas)

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4. The Engine - What Makes It Smart

Under the hood, a Workflow Engine uses topological sorting to determine block execution order. Supports template interpolation -- blocks reference each other via `{{variable}}` syntax -- and uses safe expression evaluation (no eval, no code injection risk).

5. Key Features

> One-click deploy -- live endpoint at `/api/generated/your-workflow`

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6. Why It Matters / Impact

What takes 2-4 hours traditionally can be done in 5-10 minutes. Useful for hackathons, MVPs, teaching, and lets frontend devs or non-technical folks create APIs without learning backend frameworks.

Pro Tips for Delivery

- Open: "I built a visual drag-and-drop platform to create REST APIs without writing backend code."
- Wow moment: "One click = live, documented API endpoint."
- Close: "Reduces API dev time from hours to minutes."
- Short on time? Focus on points 1, 2, 5, and 6.

Built as a PEP Project -- making API development accessible to everyone.