
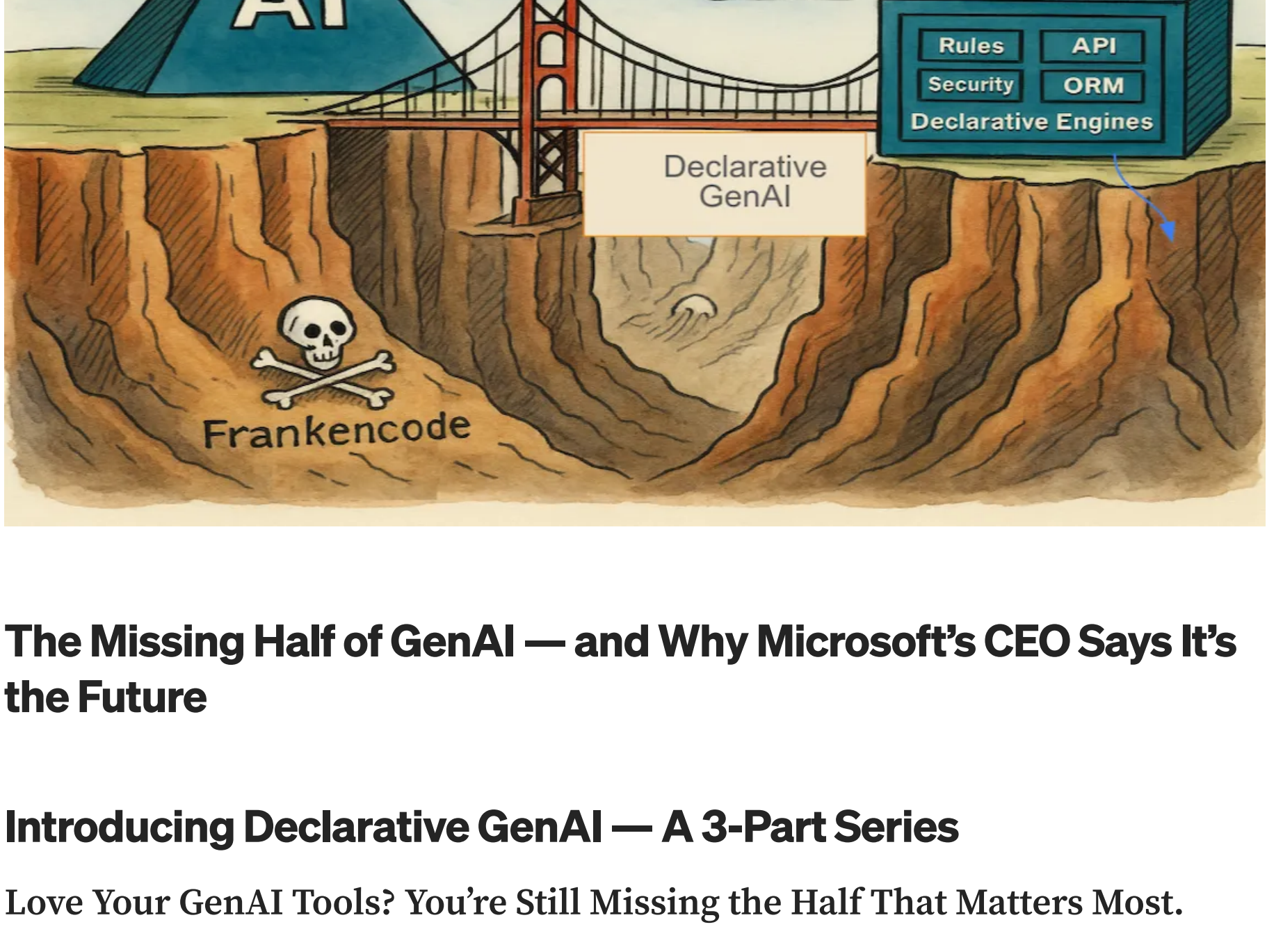


The Missing Half of GenAI — and Why Microsoft’s CEO Says It’s the Future

 Val Huber · 4 min read · 5 days ago



The Missing Half of GenAI — and Why Microsoft’s CEO Says It’s the Future

Introducing Declarative GenAI — A 3-Part Series

Love Your GenAI Tools? You’re Still Missing the Half That Matters Most.

GenAI vibe tools like Cursor, v0, and Bolt are incredible at creating beautiful UIs. But here’s what Microsoft CEO Satya Nadella recently predicted: the future business app is just a “*thin UI over a bunch of business logic, managed by agents*”.

Current GenAI tools are excellent at the thin UI. But they don’t yet address the business logic layer — the part Nadella says matters most.

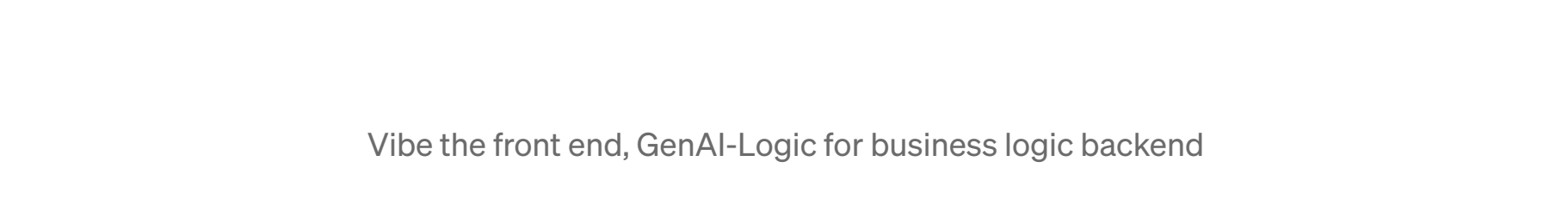
That’s where Declarative GenAI comes in — the missing half that completes the future.

The Gap in Today’s GenAI

We love the GenAI vibe tools too, but they’re only part way to the future Nadella described:

- **Baseline (pre-AI):** 100 units of effort
- **Current GenAI (thin UI only):** 56 units of effort
- **Declarative GenAI (UI + Business Logic):** 20 units of effort

We’re leaving major productivity gains on the table — and missing the entire business logic layer that delivers the value.



AI-only vibe tools stop at the UI — Declarative GenAI adds the business logic, reducing total effort by 80%.

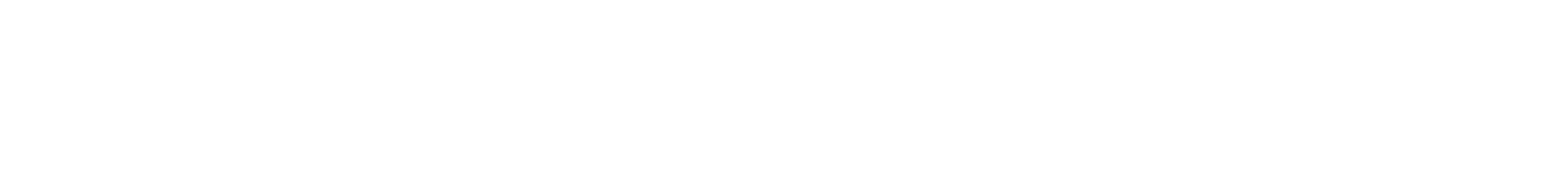
The Vision: Business Logic Agents

The future Nadella described requires declarative business logic that is:

- **Natural Language** — business users and developers provide logic requirements in natural language
- **Governable** — no AI hallucinations; implements your requirements exactly
- **Maintainable** — self-documenting code that looks like the requirements, easy to maintain
- **Enterprise-ready** — proper architecture, not logic embedded in client-side hacks

Consider This Example

Imagine we want to create a system from the prompt below (lighter shade), describing both data model, business logic and app integration:



I tested our standard enterprise prompt — shown above — across the popular GenAI vibe tools. The results were clear:

Where Current Tools Hit the Wall

I tested our standard enterprise prompt — shown above — across the popular GenAI vibe tools. The results were clear:

- Subtle corner-case bugs, buried in hundreds of lines of unmaintainable *FrankenCode*
- Often dumped on the client side — this violates service-oriented architecture (SOA) principles of reusable logic and automated invocation

This isn’t the fast path to enterprise-ready business logic — it’s instant tech debt that creates a maintenance burden.

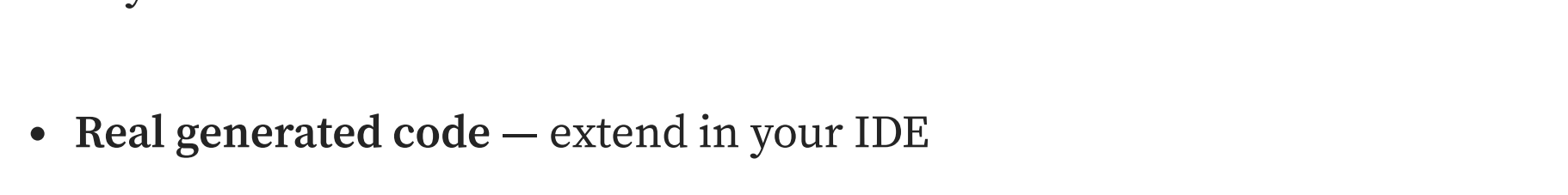
The Missing Half: Declarative GenAI

When used with GenAI-Logic, the same prompt shown above produces exactly what Nadella described:

- **Real generated code** — extend in your IDE
- **What you get:** complete database, admin UI, REST API, and integrations — all implementing your business logic exactly as specified
- **Time:** 1 minute for a complete, future-ready system

The critical difference is the use of *Declarative GenAI* for the business logic half of the system:

- Declarative GenAI: *5 rules, clean, transparent, and enterprise-ready*
- Procedural GenAI: *200+ lines of brittle FrankenCode*



Here’s how Declarative GenAI works:

1. Prompt engineering is provided for GenAI to translate your requirements into Domain Specific Language (DSL) code instead of procedural code. There’s no hallucination, because Declarative GenAI is translating your logic, not making up its own.
2. The resultant Domain Specific Language (DSL) code is executed at runtime by the Declarative Rules Engine, operating as an ORM listener. This runtime (non-RETE) engine is a sophisticated piece of software, providing automatic invocation, dependency-based ordering, and optimization.

Declarative GenAI: Complete Your Favorite Tools

This isn’t about replacing the GenAI tools you love for UI development. It’s about completing them with the missing half:

- Keep using Cursor/v0/Bolt for the “thin UI” layer
- Add Declarative GenAI for enterprise-ready business logic
- Deploy systems that actually work in enterprise environments

The result? **80% less total effort** and applications ready for the future Nadella described.

Coming Up in This Series

- **Part 2:** Business User / IT Collaboration — how business users can create enterprise logic themselves, iterate to get the requirements right, then hand off working systems to IT. Check it out — [click here](#).
- **Part 3:** Living with Logic — logic management and debugging using your existing IDE, and deployment via standard containers

Complete Your GenAI Stack Today With GenAI-Logic

Microsoft’s CEO showed us where development is heading. Current GenAI tools give you half of it. Explore the missing half with [GenAI-Logic](#), free and open source:

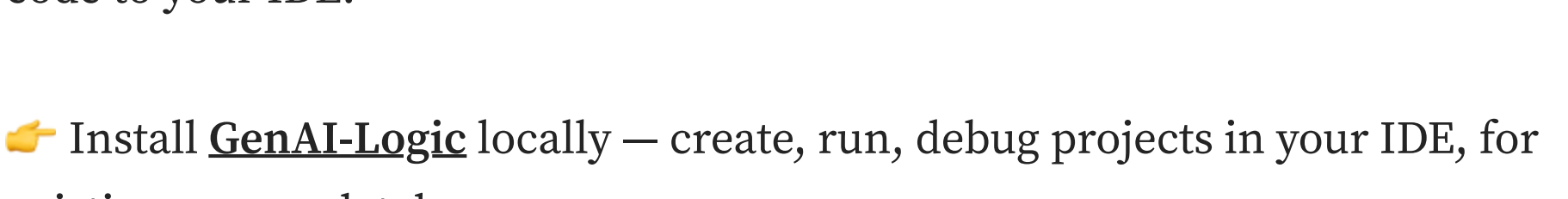
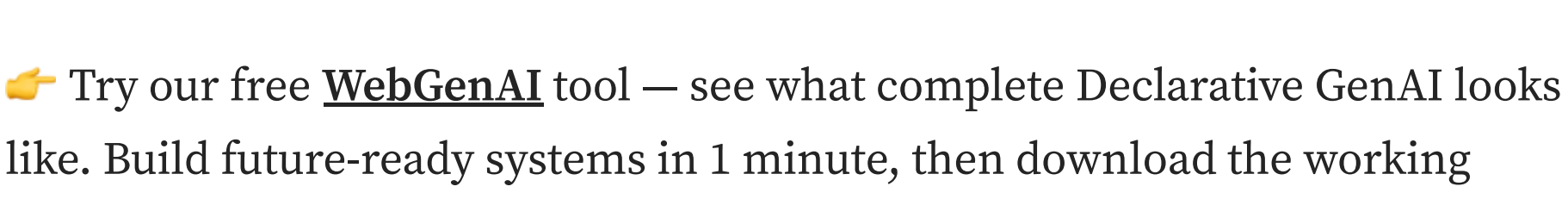
👉 Try our free [WebGenAI](#) tool — see what complete Declarative GenAI looks like. Build future-ready systems in 1 minute, then download the working code to your IDE.

👉 Install [GenAI-Logic](#) locally — create, run, debug projects in your IDE, for existing or new databases.

What’s your biggest challenge implementing business logic with current GenAI tools? I’d love to hear your story in the comments.

#DeclarativeGenAI #GenAI #Enterprise #BusinessLogic #SatyaNadella
#LowCode #Vibe #AI #Agents

Originally published at <https://www.linkedin.com>.



Written by Val Huber

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