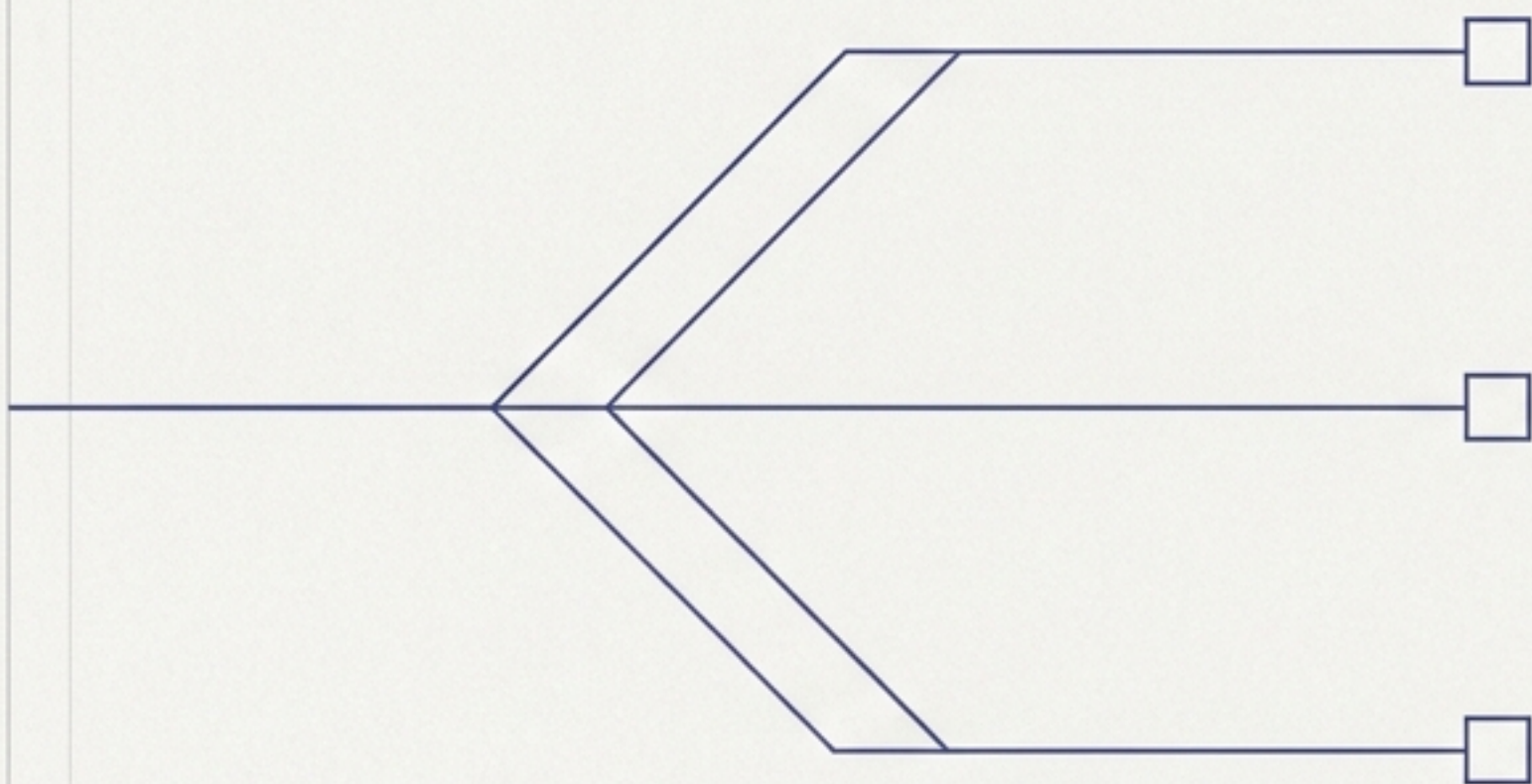




98 Commits. 15 Hours. 3 Products.

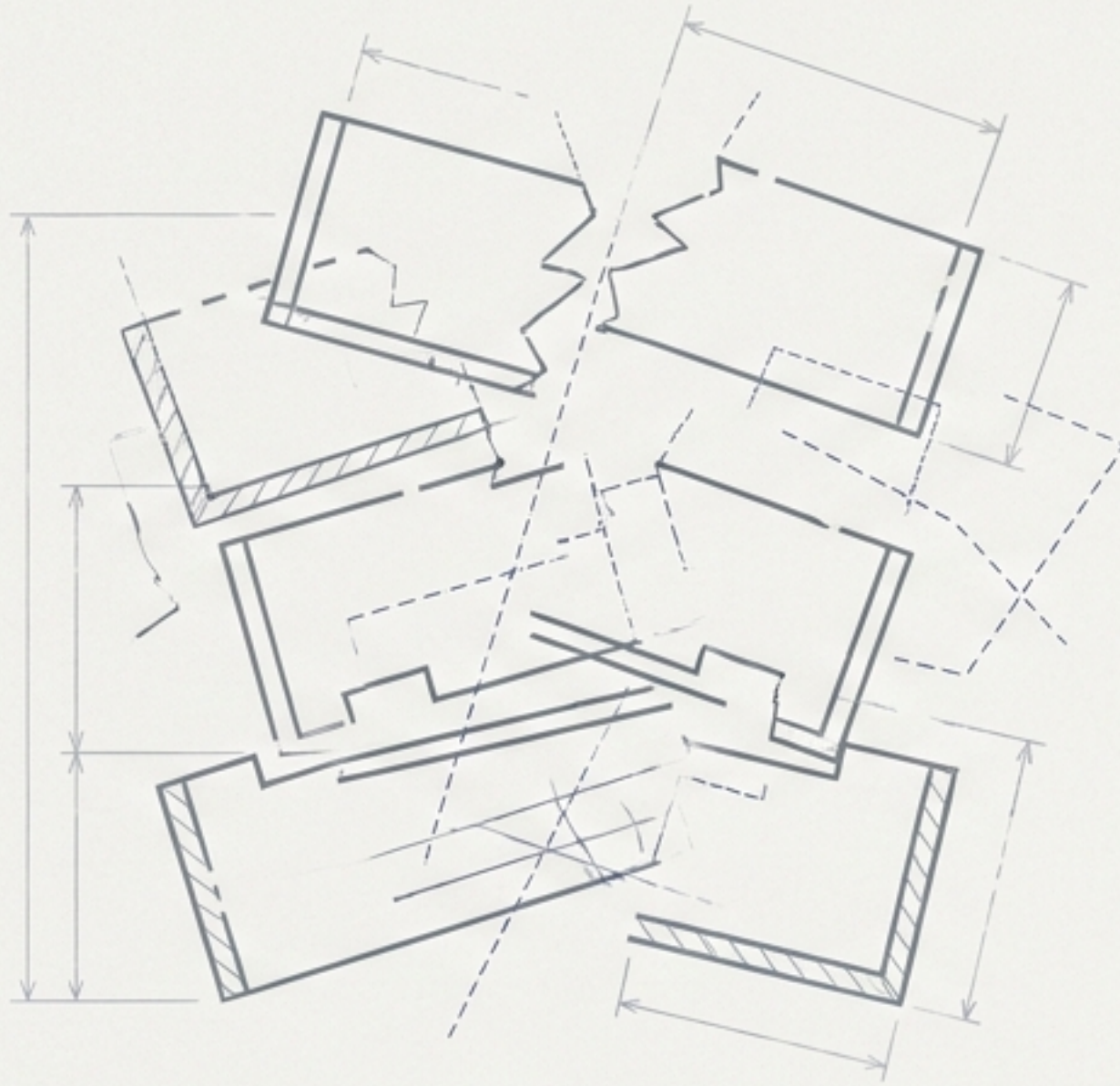
Total Commits: 98 (Average: 1 commit every 9 minutes)

Time: 15 Hours

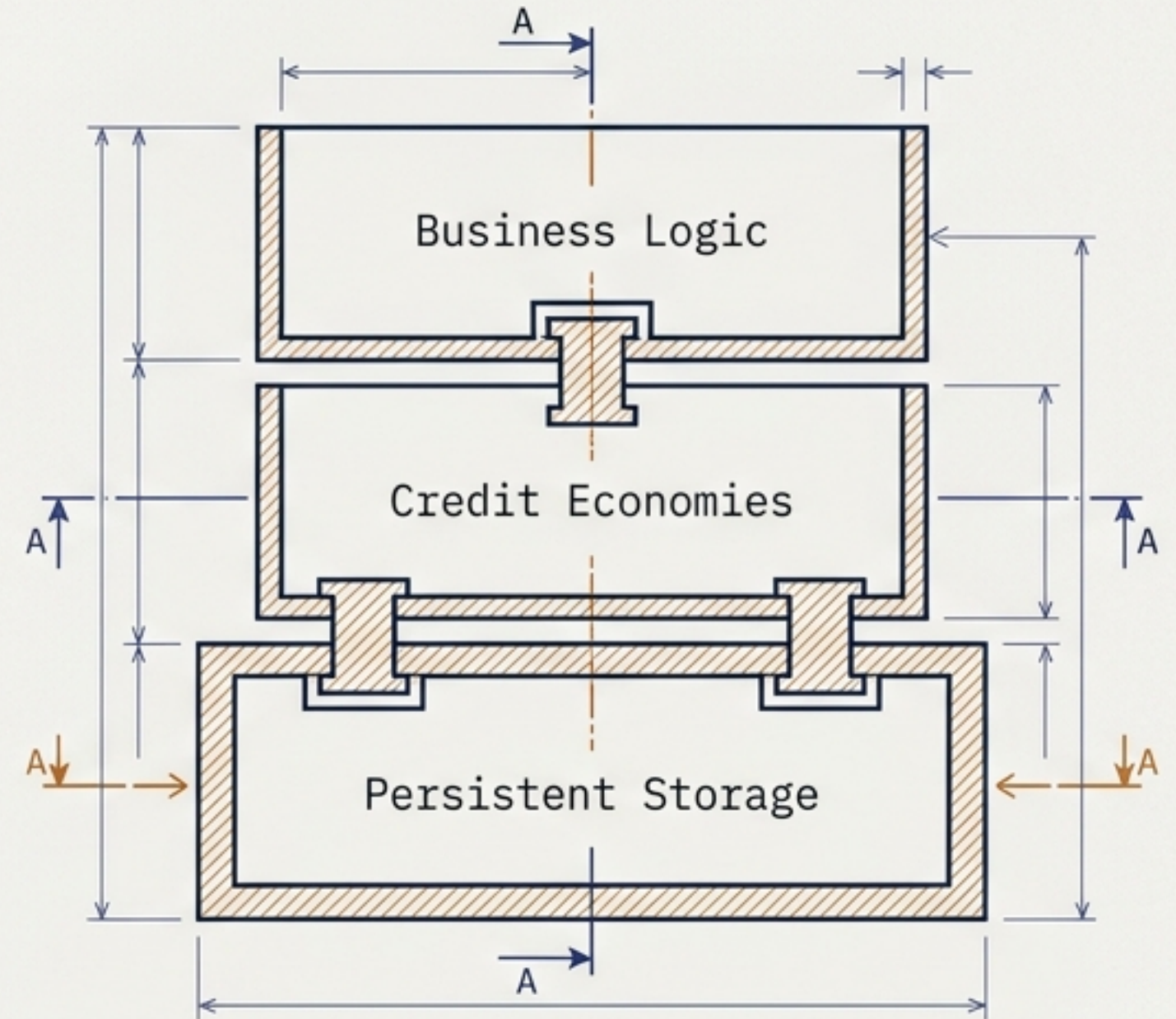
Output: Three zero-to-production products built with a 95% AI-generated codebase.

Context: Day 27 of the PanPanMao build diary.

Extreme velocity requires an unbreakable foundation.



The Myth: Moving fast and breaking things.



The Reality: Moving fast because the foundation is strong.

Massive refactoring clears the path for rapid product velocity.

PR #16: Standardizing Streaming

24 files changed, ~1,600 insertions,
~2,000 deletions.

15 API routes migrated from custom
ReadableStream implementations to a
shared `createAIStreamResponse()`
helper with lifecycle hooks
(`initEvents`, `onComplete`, `onError`,
`onComplete`, `onError`,
`refundCreditsOnError`).

PR #21: Centralizing Cost Logging

1,942 tests passing.

Replaced repetitive Supabase typing
workarounds across 20 files with a
single `createRouteCostLogger()`
function.

Git-Tree Blueprint

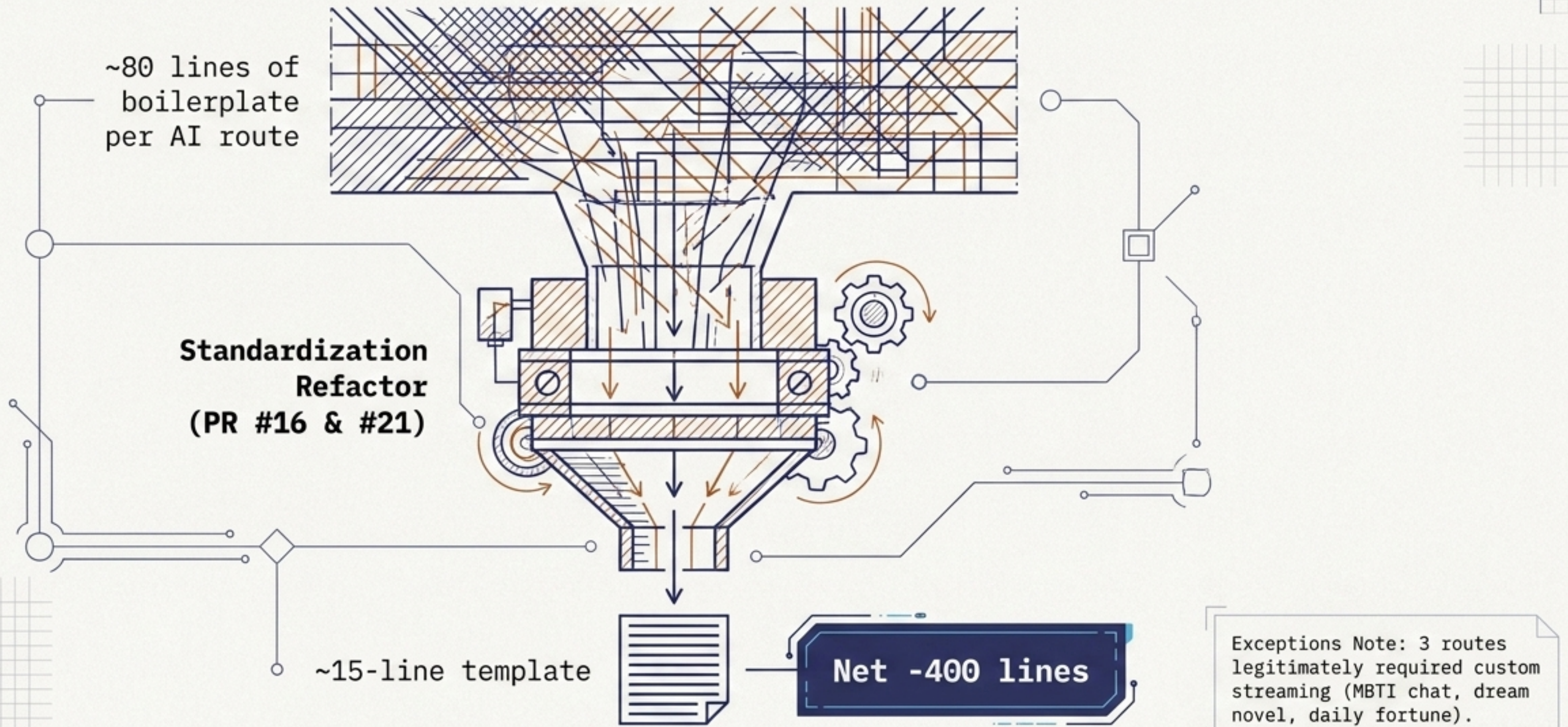
SECTION A-A

SCALE 1:100

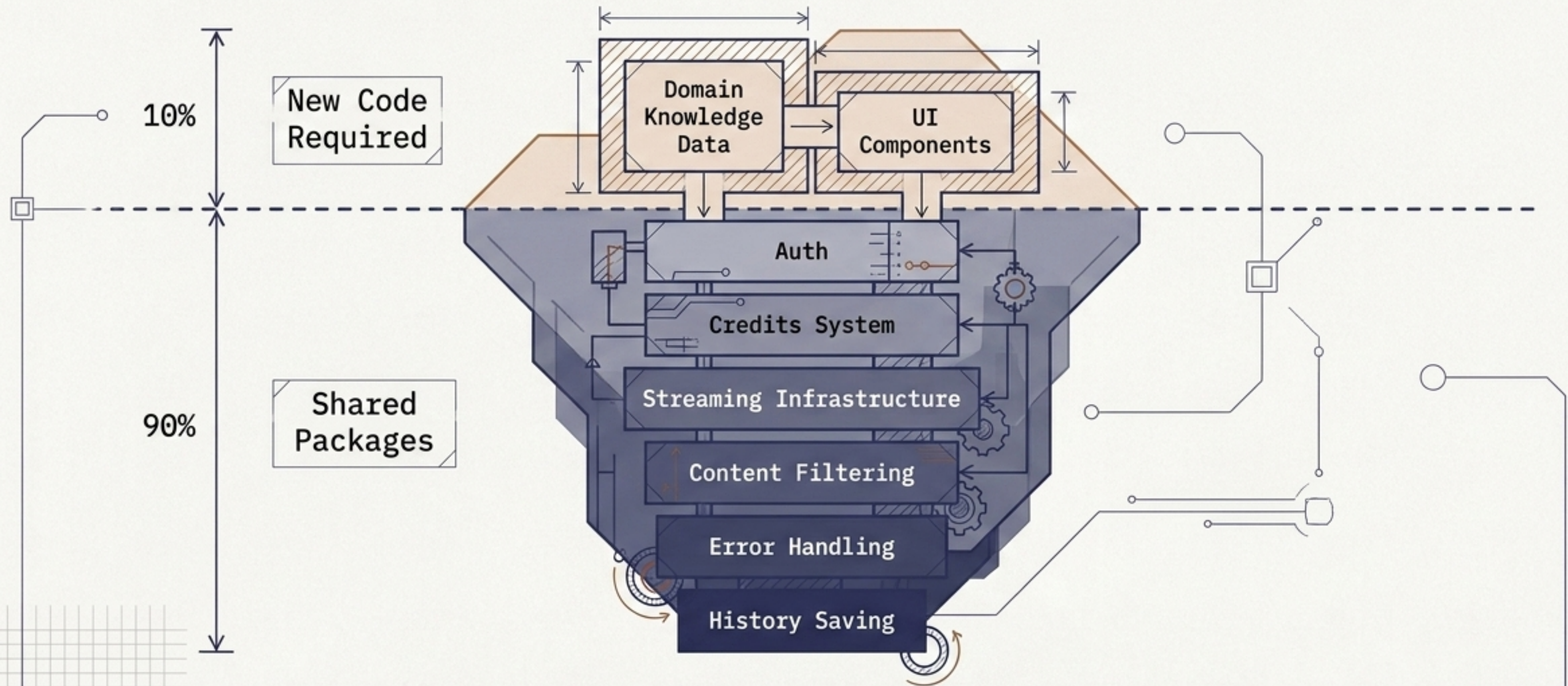
REV.

01

Removing friction at the route level accelerates feature delivery.

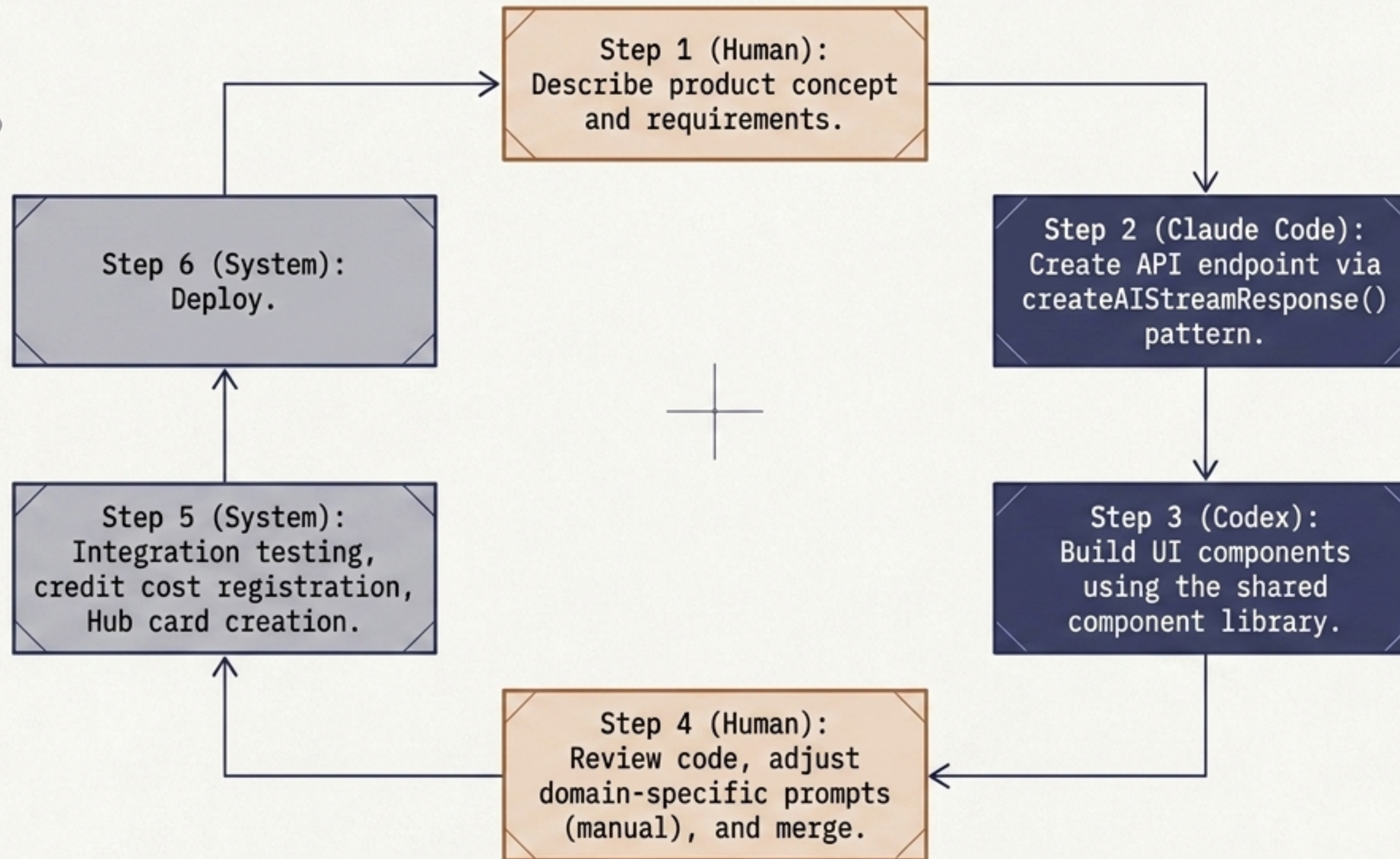


New products only require domain knowledge and a user interface.

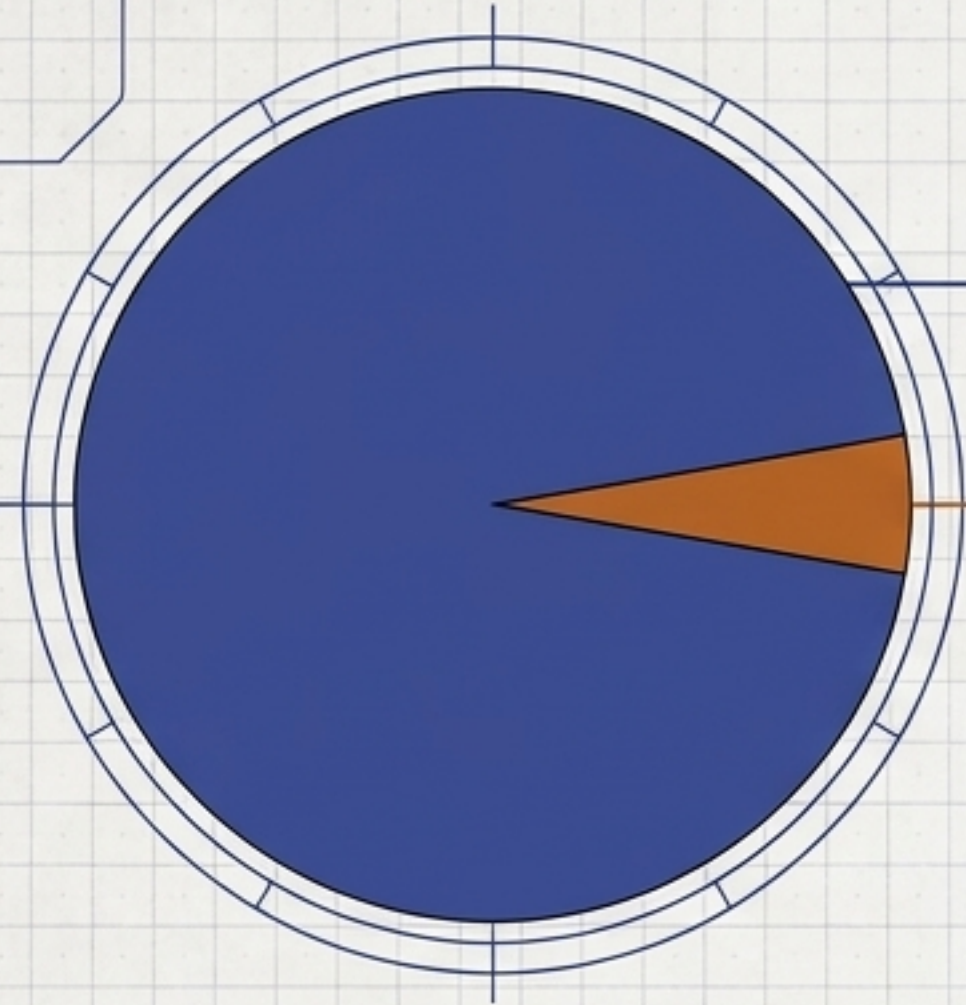


By relying on shared packages, a completely new product can go from zero to production in just 4 hours.

Building new verticals follows a predictable, AI-assisted mechanical loop.



Humans provide the product vision while AI handles the implementation.



95% AI-Generated Implementation

Boilerplate, standard API routes, UI components

5% Human-Directed Product Glue

Product decisions, domain-specific prompt engineering, integration logic, code review

“The 5% is what makes it a product and not a demo.”

SECTION A-A

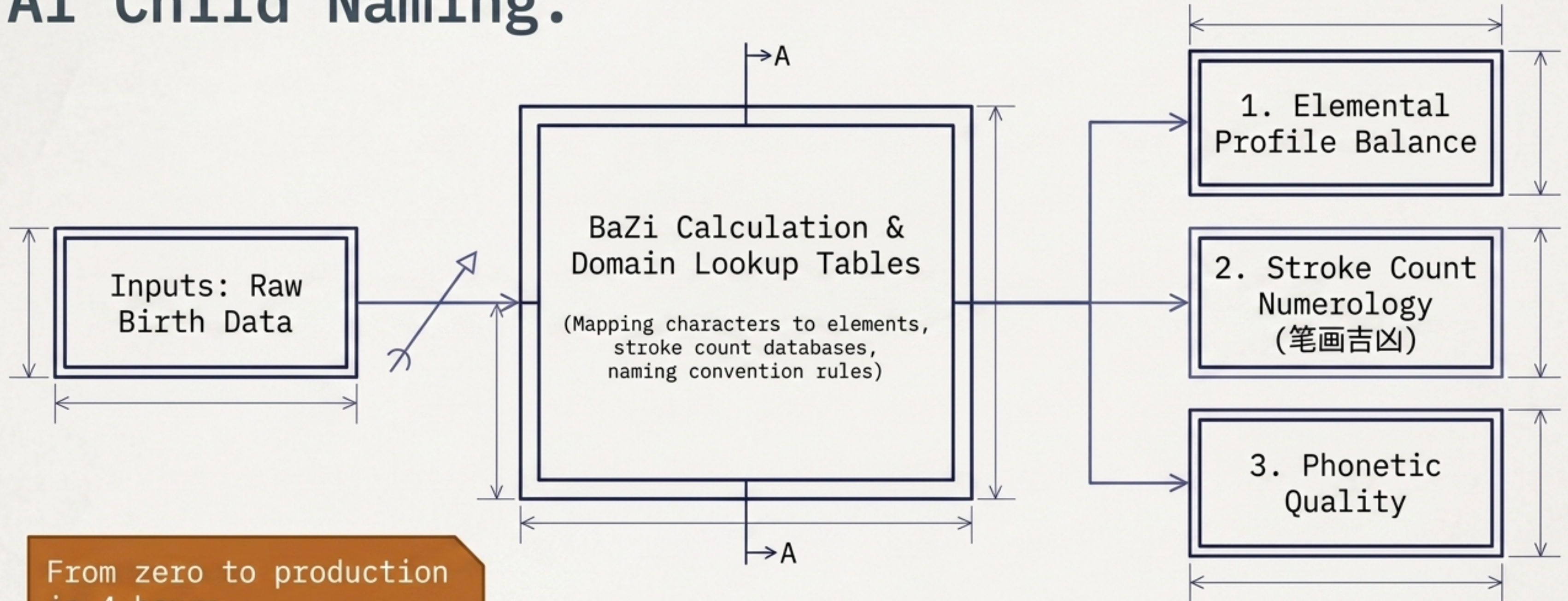
SCALE 1:100

REV 03

Three distinct products shipped from zero to production in a single day.

	AI Child Naming (起名)	Name Compatibility (配对)	Annual Forecast (流年)
DOMAIN CORE	BaZi elements, stroke count numerology.	Day Pillar harmony, relationship analysis.	Zodiac, TaiSui analysis, wuxing year energy.
FEATURES	Element balancing, semantic meaning alignment.	Shareable scoring, character-level element interaction.	Progressive rendering, extensive knowledge catalogs.

Domain expertise dictates the logic for AI Child Naming.



From zero to production
in 4 hours.

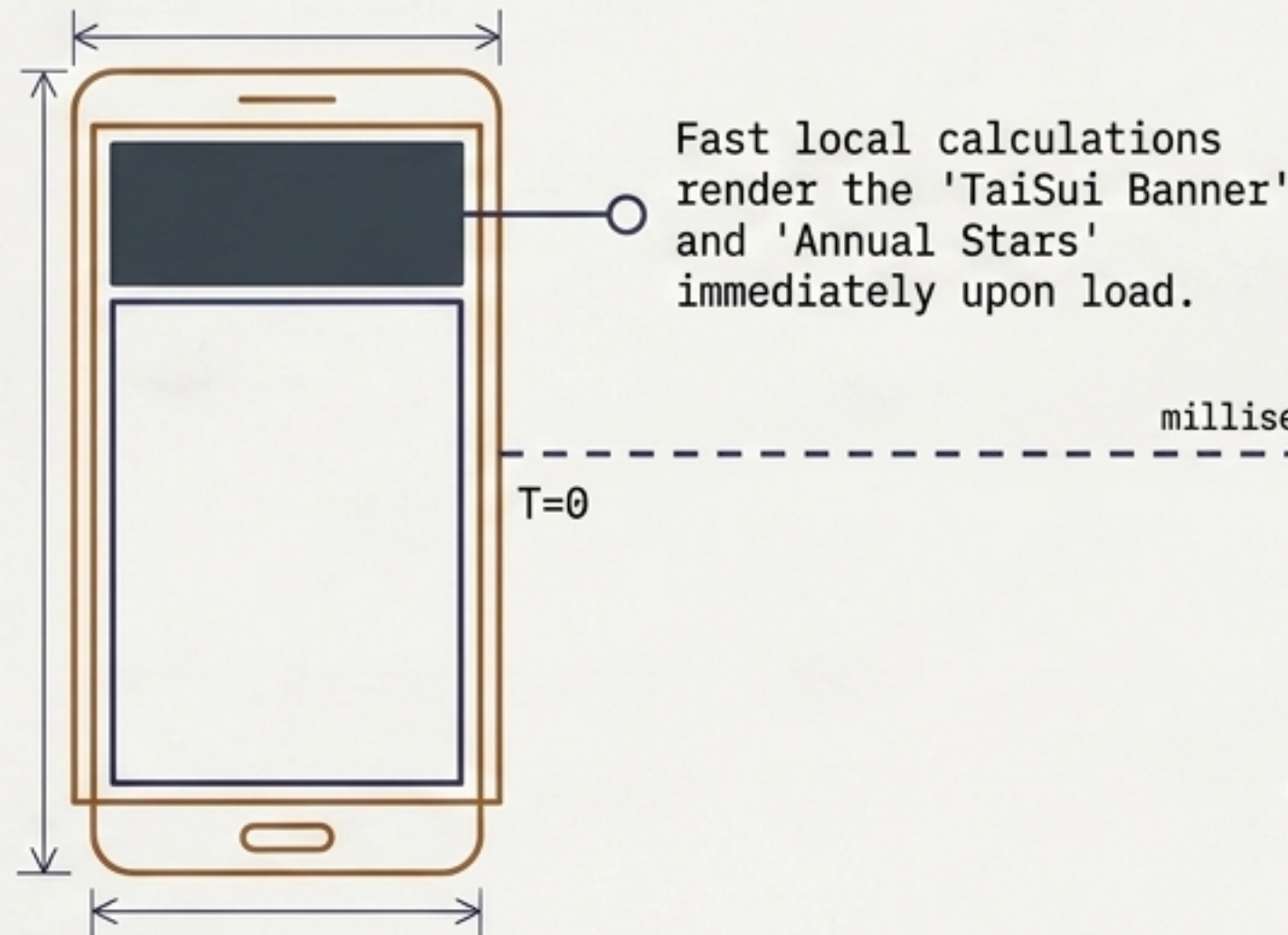
(Parents traditionally pay 200-2000
RMB per session for this service).

Git-Tree Blueprint

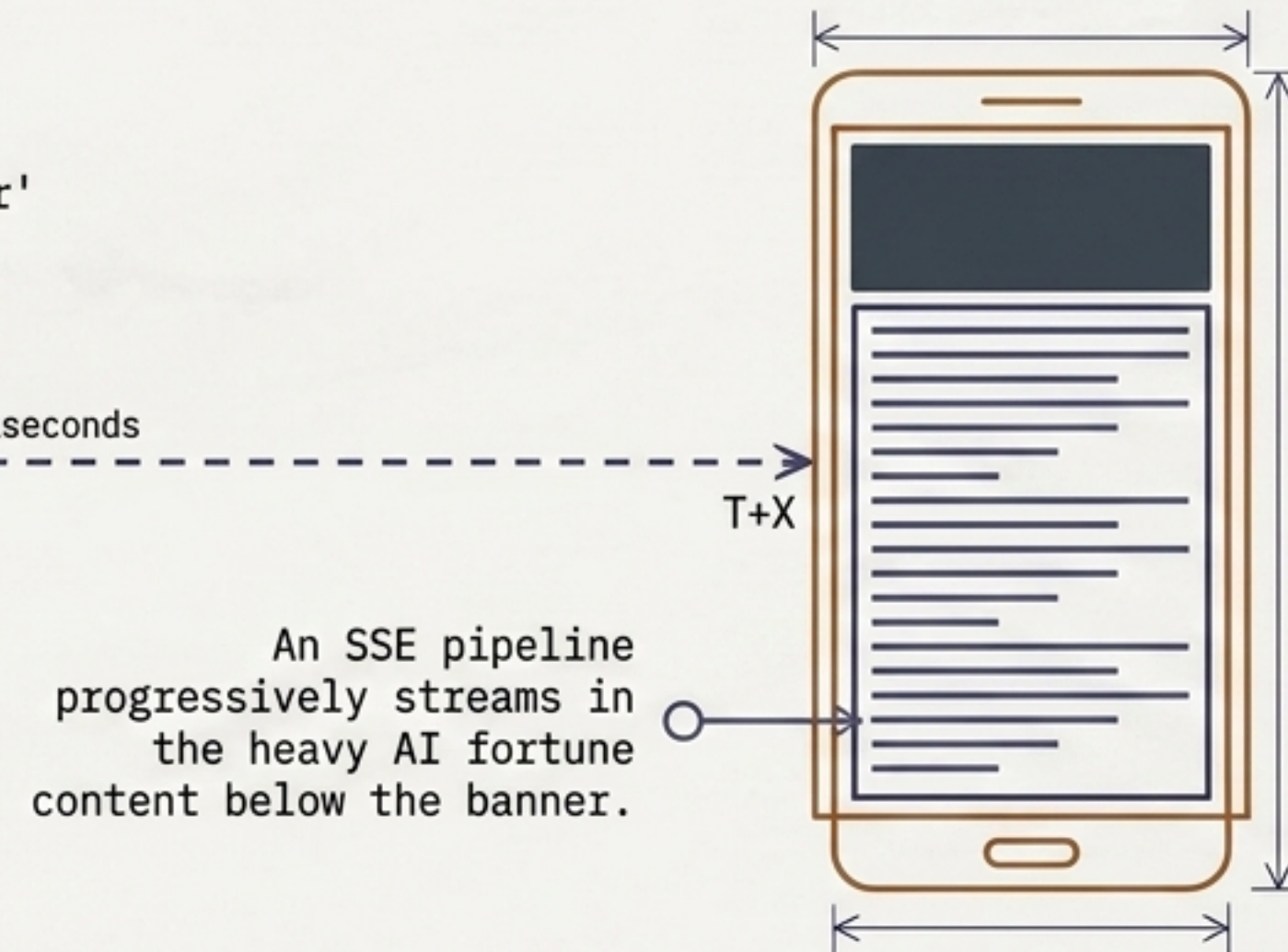
TECHNICAL	SCALE	REV.
SECTION A-A	SCALE 1:100	05

Progressive rendering bridges instant calculations and streaming generation.

Phase 1: Instant Local Load



Phase 2: Streaming Output



Testing exclusively in tier-1 cities creates invisible geographical bugs.

The Bug (PR #34)

Users searching for autonomous prefectures like 黔西南 (Qianxinan) returned zero results in the BaZi search.

Geocoding DB

The Fix

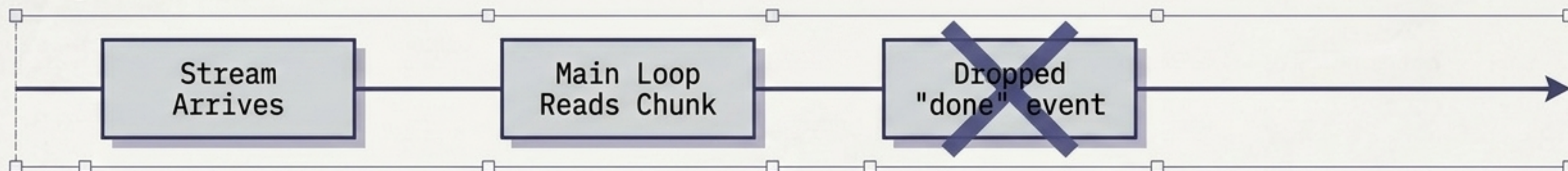
Expanded the geocoding database from 46 major cities to 379 entries (covering all 333 prefecture-level divisions). Each entry includes coordinates, province, and aliases for short-name matching.

Git-Tree Blueprint

TECHNICAL SECTION A-A | REV.
SCALE 1:100

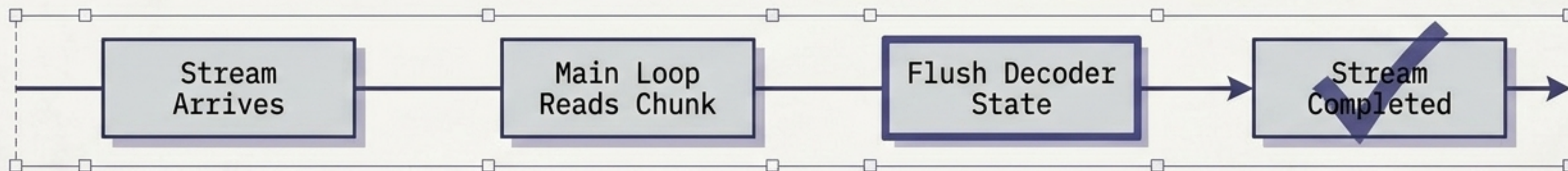
Trailing buffered data causes false network errors if the decoder state remains unflushed.

Bug State (PR #96)



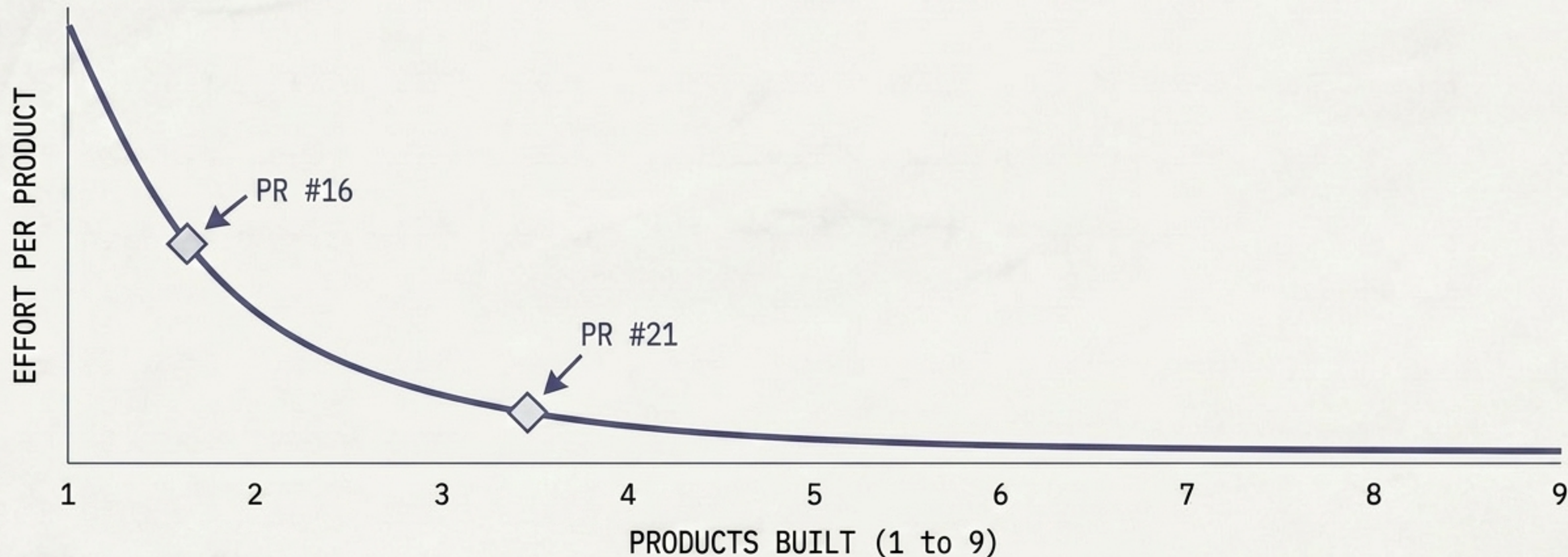
An SSE data stream arrives. The main read loop captures the chunk, but the "done" event is trapped in a trailing buffer without a newline. The system drops the event and throws a misleading network error.

Fixed State



A finalization step is added. The decoder state flushes, parsing the trailing buffered SSE events, and successfully completing the stream interpretation.

Each new product drastically reduces the effort required for the next.

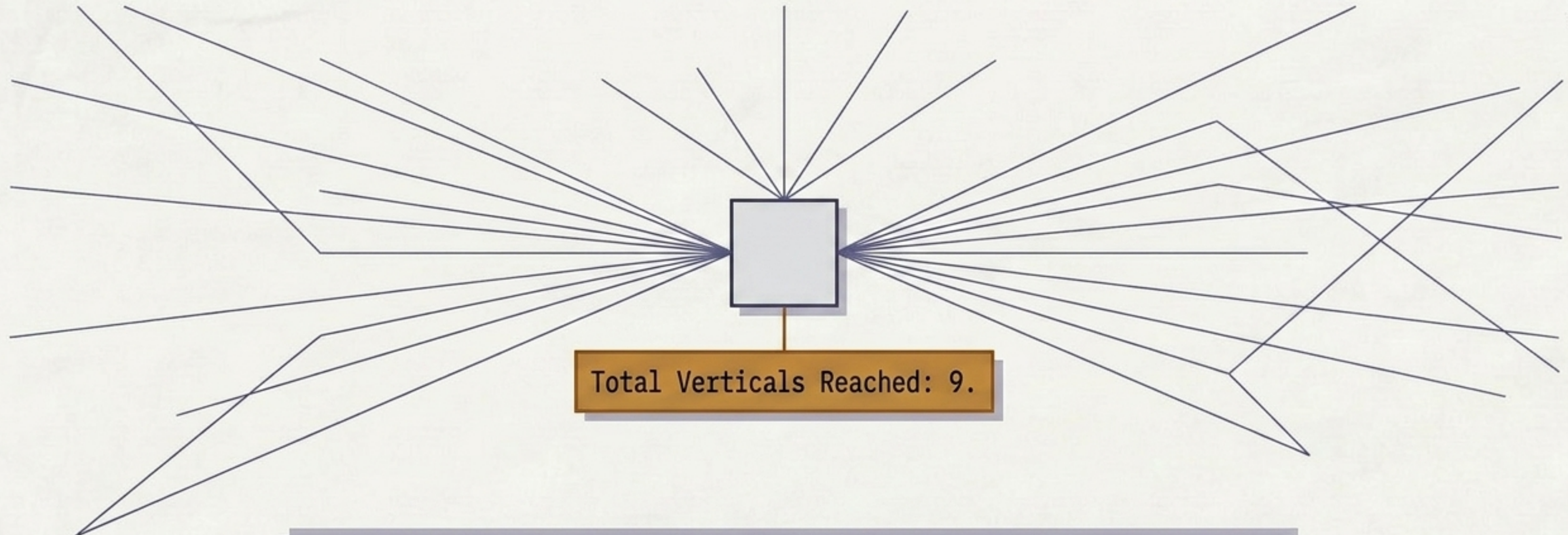


The compounding effect of good architecture: the first few products were hard. By the third product today, the pattern was almost mechanical.

Git-Tree Blueprint

TECHNICAL SECTION A-A | REV.
SCALE 1:100

True productivity is building the right primitives and directing AI to assemble them.



Total Verticals Reached: 9.

Even at half this pace, shipping real business logic with real persistence is not "moving fast and breaking things."
It is moving fast because the foundation is strong.

Git-Tree Blueprint

TECHNICAL SECTION A-B | REV.
SCALE 1:100

NotebookLM

Git-Tree Blueprint