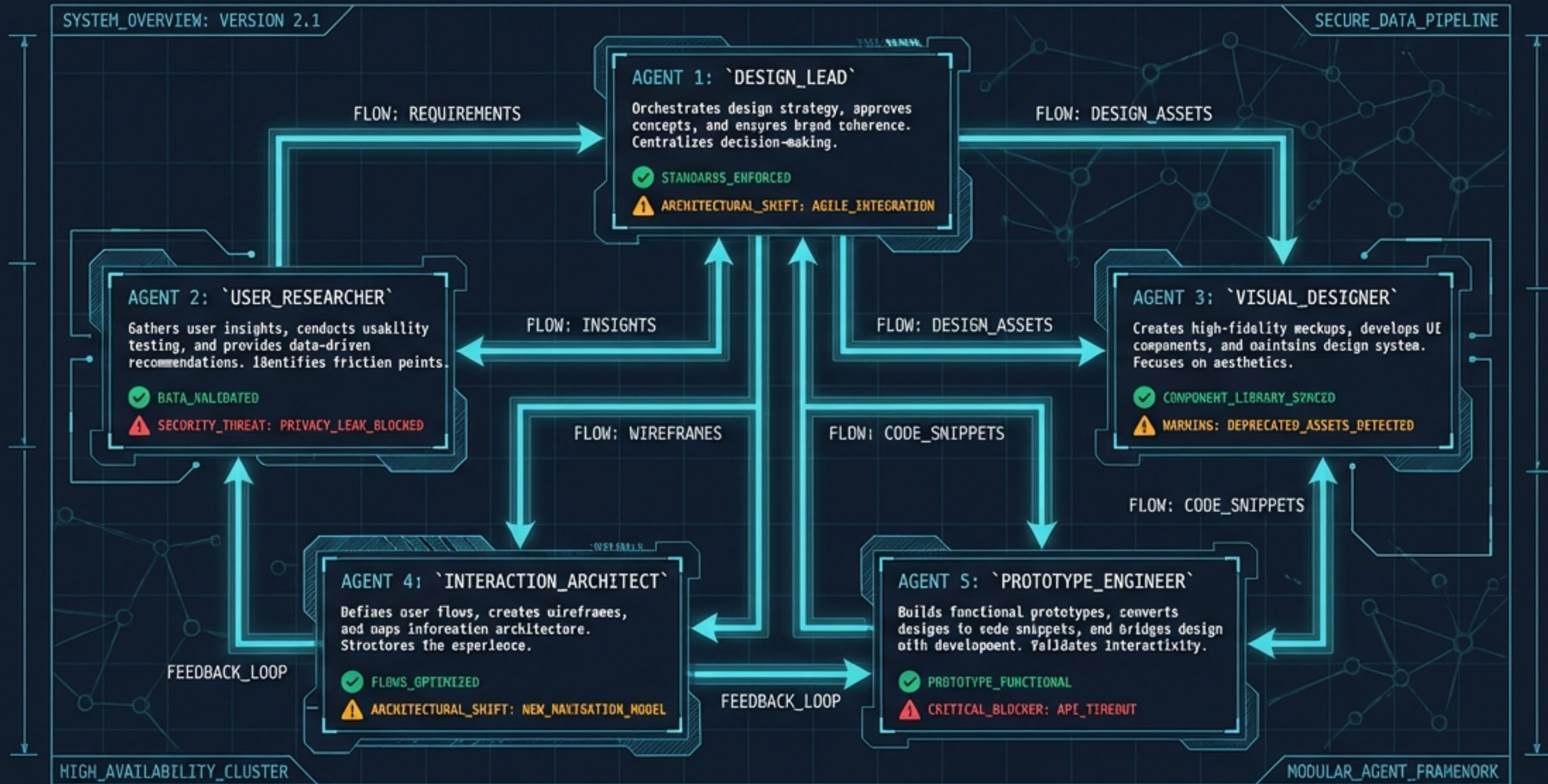


THE /UI-UX SKILL SYSTEM

BUILDING A 5-AGENT DESIGN TEAM ARCHITECTURE

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12



Community Skills Evaluated

35



Hard Design Rules Enforced

5



Autonomous Agents Deployed

1



Day Build Time

36%



CRITICAL BLOCKER:
VULNERABILITY
DETECTED

Prompt Injection Vulnerability Rate

Current State

game-ux agent

blog-ux agent

The Gap

Design System Generation
(Automated tokens, typography)

Accessibility Enforcement
(WCAG contrast, touch targets)

Performance Guardrails
(React Server Component limits)

Anti-Pattern Detection
(Flagging AI slop and generic defaults)



12 Evaluated Skills

Data	Philosophy	Rules
161 design categories, 57 font pairings.	Work backwards from audience, explicit ban on overused AI defaults.	32 non-negotiable standards (e.g., no pure black , 44x44px touch targets).

Synthesis over cloning. Cherry-pick the logic, leave the assumptions.

CRITICAL DECISION: Zero-Trust Execution

36% prompt **injection** vulnerability rate in community AI skills.

Executing external Python/Shell scripts

Static Prompt Instructions

Total trust environment unlocking warrien: in community AI security.

Zero-trust environment. Rejected all external Python scripts, CLI tools, and installation dependencies. No arbitrary code execution.

Architecture: Director + 4 Specialists



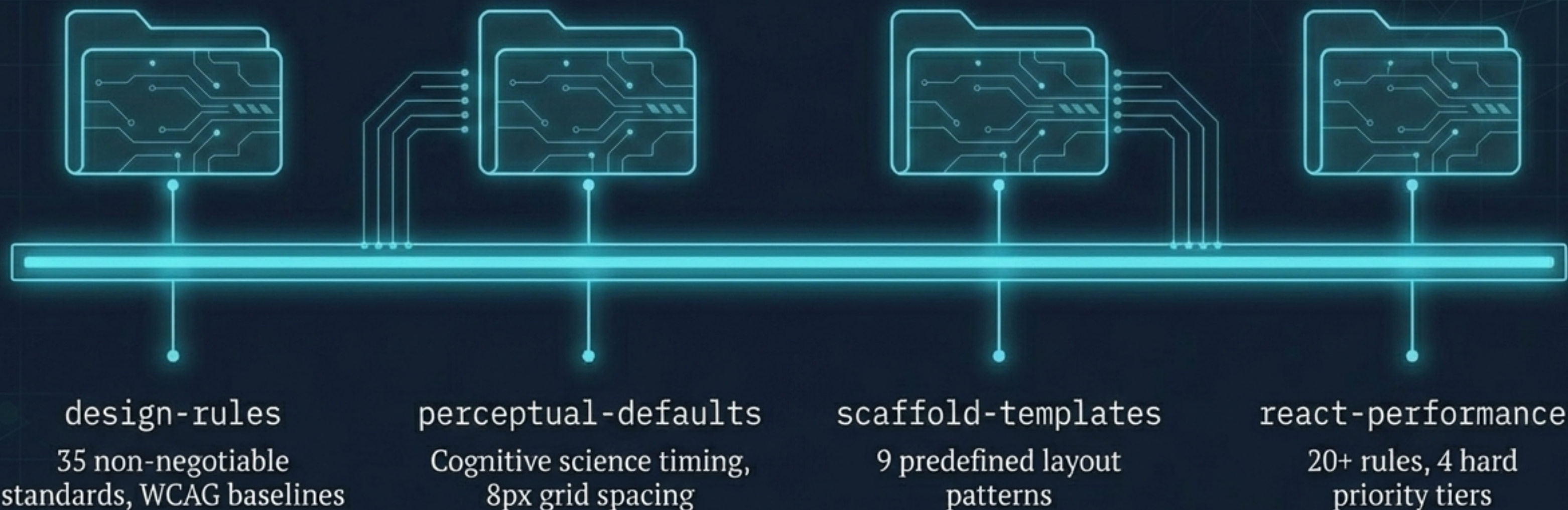
Routing Modes: Design → Build → Review → Fix → Audit

Strict File Ownership Strategy

	Read Knowledge Base	Write Styles	Write Components	Write Reports
Visual Designer	✓	✓	🔒	🔒
Component Architect	✓	🔒	✓	🔒
Reviewers	✓	🔒	🔒	✓
Director	✓	🔒	🔒	🔒

Non-overlapping file ownership eliminates unpredictable agent merge conflicts.

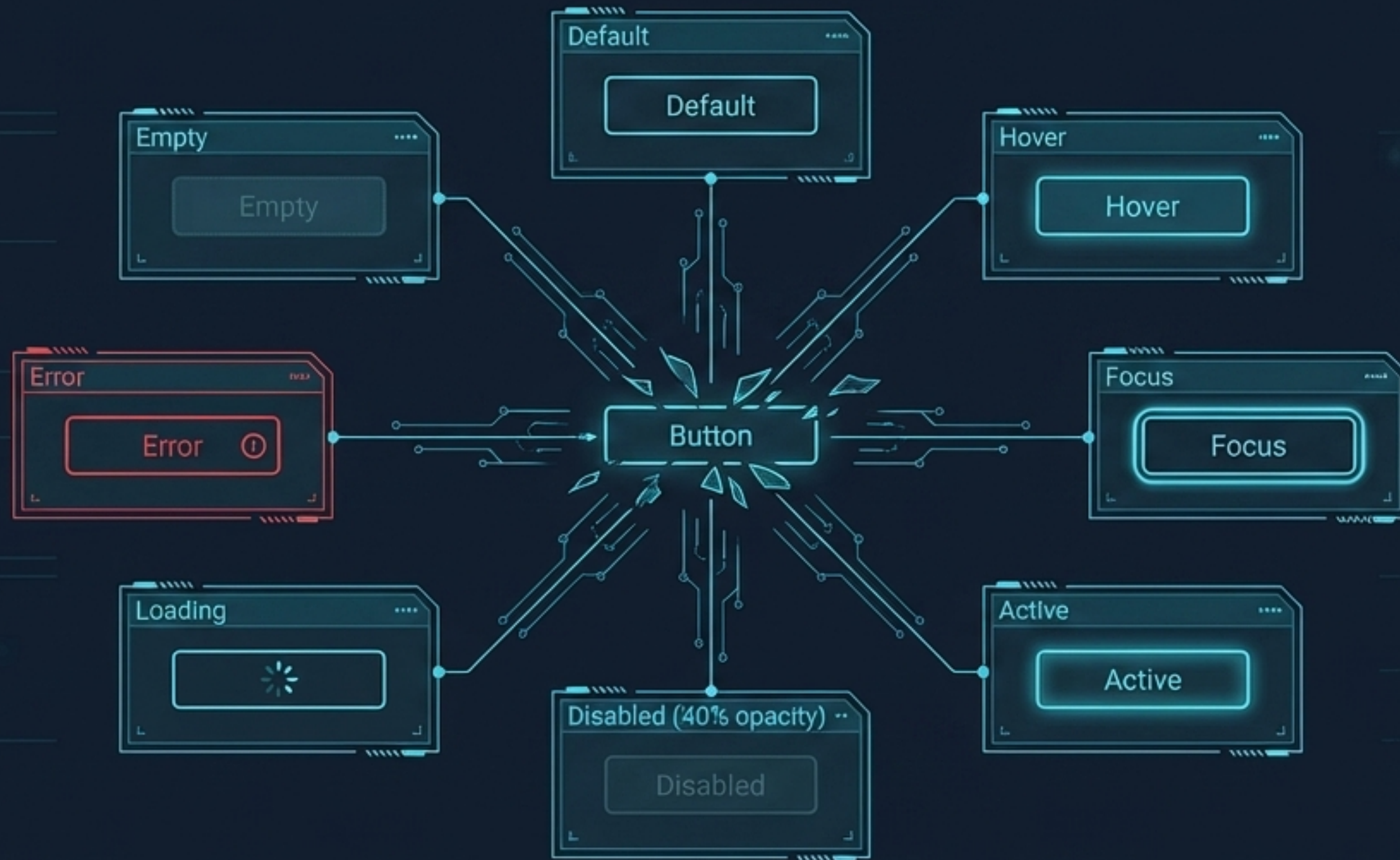
The Shared Knowledge Base



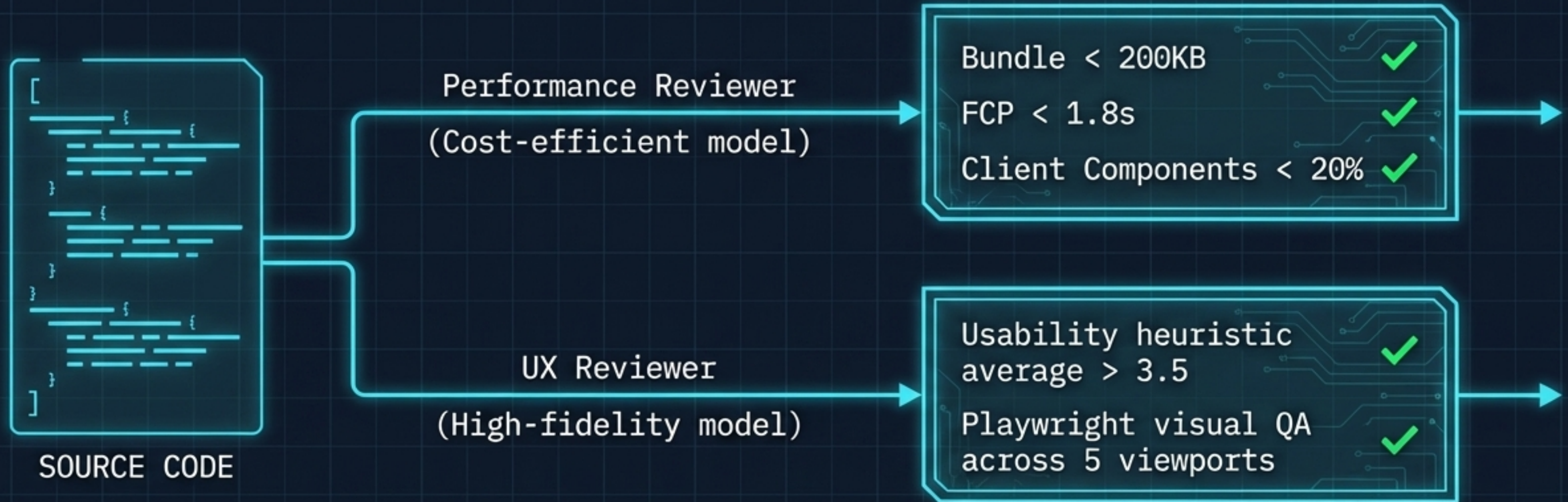
Knowledge is referenced via shared directory, not embedded in individual agent prompts.

Component Architect Constraint

Every interactive component must explicitly handle all 8 states. Missing states are the primary source of UI bugs. This is a hard structural requirement, not an aesthetic suggestion.

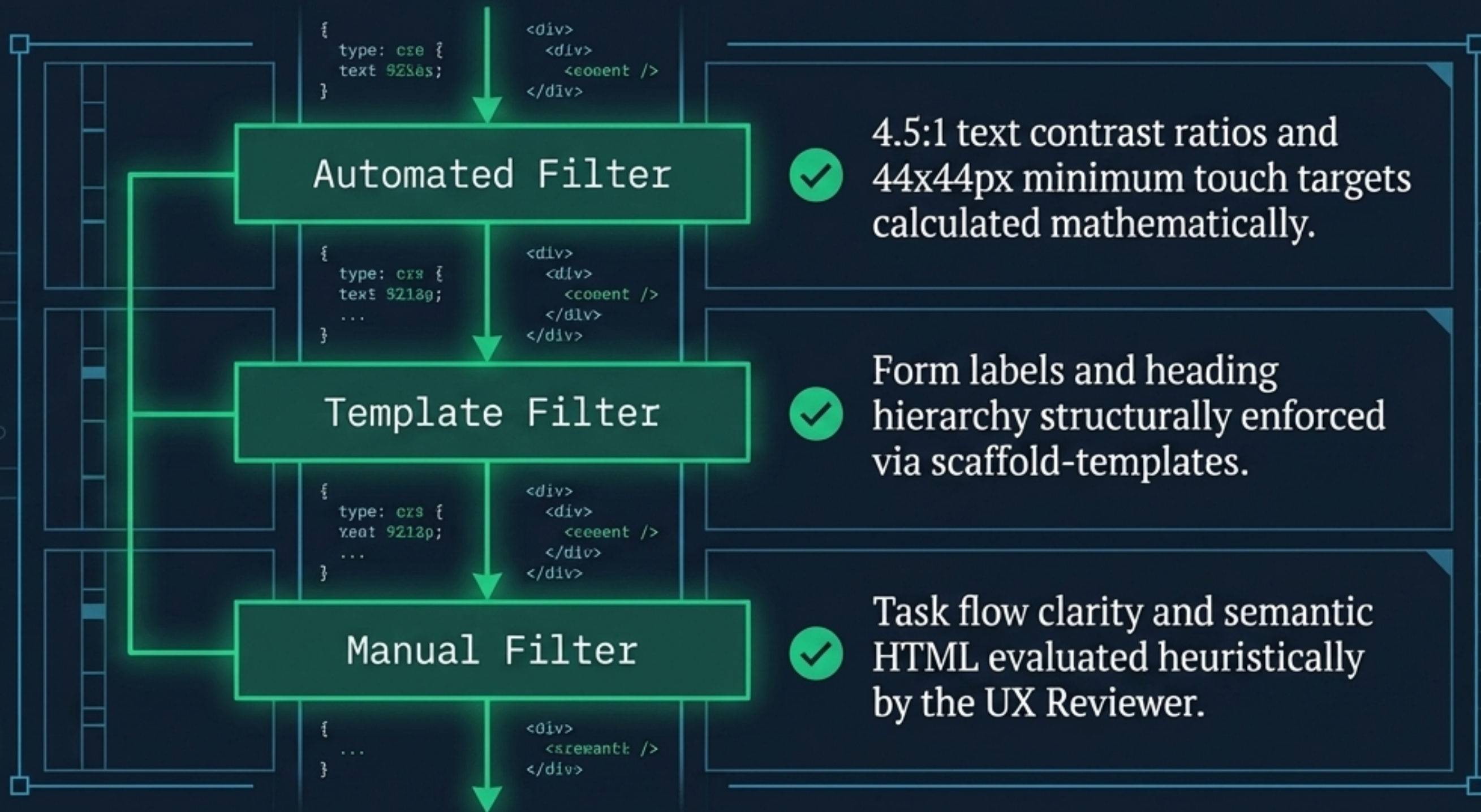


The Parallel Quality Gate



Performance and UX are independent concerns.
Parallel execution saves time without losing coverage.

Security & Compliance: Built-in WCAG AA



WCAG AA is a legal baseline, not an aspirational goal.

Technical Stack Boundaries

Next.js 15

React Server Components by default. Client components require explicit justification.

Tailwind CSS v4

Built around the @theme directive for native CSS custom property generation.

Animation Protocol

CSS transitions preferred (0 KB runtime). External animation libraries restricted.

Responsive Logic

Container Queries enforced for components (95% support). Media Queries restricted to page layouts.

The Hard Lesson

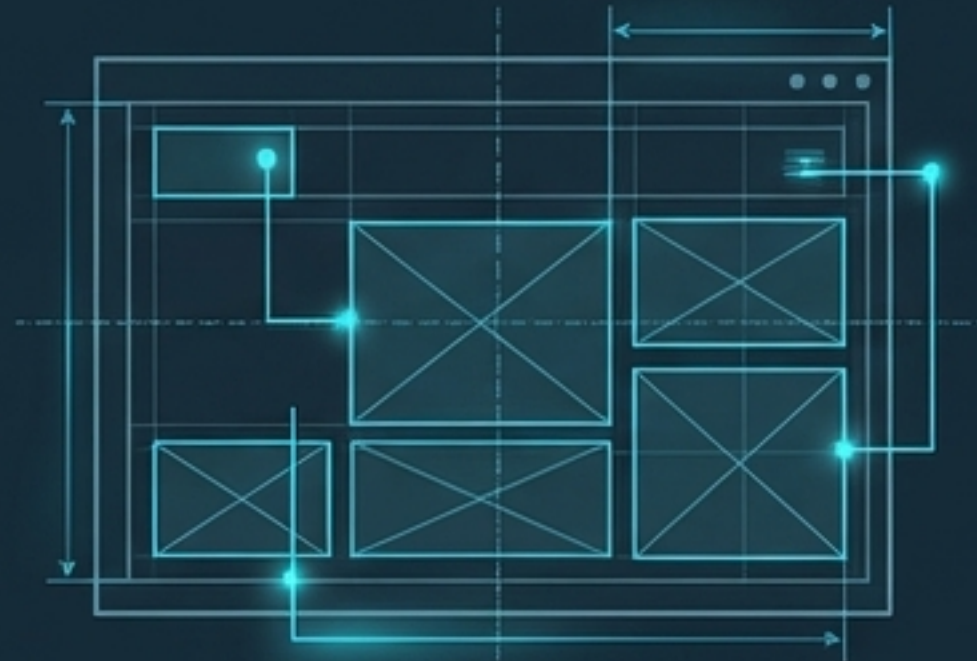
Changing CSS tokens is a reskin, not a visual overhaul. The design system provides vocabulary; JSX provides the grammar.

Reskin - The Illusion



Tokens swapped, fonts updated cleanly.

Redesign - The Reality



True transformation requires rewriting `JSX` layout composition.

Engineering Takeaways

> `cherry_pick --ignore-bloat`

Extraction Law: Synthesize logic from multiple sources. Cloning inherits assumptions and security risks.

> `map_pipeline_to_graph`

Topology Law: Sequential execution for dependencies. Parallel execution for independent tasks.

> `enforce_strict_states`

State Law: Require explicit rendering for all interactive phases to eliminate runtime UI bugs at the source.

```
> system_status: operational
> deployment: cryptoflexllc.com (production)
> executing phase_2: layout rebuilding
```

Open Engineering Questions

1. Calibrating the UX heuristic threshold scores (strictness vs. throughput).
2. Establishing a maintenance workflow for the static 35-rule knowledge base.
3. Validating the cost-efficient model's efficacy for catching nuanced performance leaks. ■