



Suhas Bhairav

AI Design System Token Compliance Auditor

**AI design system token compliance for
engineering teams**

Automate CSS color and button token enforcement
with AI to ensure consistent design usage.

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What to Automate

Define which UI tokens the AI should enforce. Start with a small, non-blocking subset of colors and button variants.

Key move Document token ownership early; otherwise drift will compromise the design system.

PRACTICAL CHECKLIST

- 01** Color tokens: enforce primary, secondary, and surface colors across components.
- 02** Button tokens: standardize size, radius, typography, and hover states.
- 03** Code scope: look for token usage in CSS, CSS-in-JS, and styled components.
- 04** Exceptions workflow: document approved deviations with reviewer sign-off.
- 05** Violation logging: capture file path, line, token, and suggested fix.
- 06** Human review: triage ambiguous cases before enforcement.
- 07** CI integration: run as part of PR checks, not post-merge.

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Data, Tools & Flow

Describe data inputs, token catalog, and the AI toolchain. Explain how code access and token mapping occur.

Key move Ensure token owners are assigned before enforcement.

PRACTICAL CHECKLIST

- 01** Token catalog: design tokens mapped to colors, typography, sizes, and state variants.
- 02** Code access: scanners run in CI or pre-commit hooks, parsing CSS, CSS-in-JS, and component props.
- 03** AI toolchain: use Claude or ChatGPT agents to match code tokens to design tokens.
- 04** Data sources: design-system repo, token specs, accessibility notes, and versioned tokens.
- 05** Outputs: violation reports, diffs with changes, and auto-fix proposals for token substitutions.
- 06** Governance: approvals, change boards, owner assignments; ensure security and auditability.

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Adoption Strategy & Metrics

Outline a practical rollout plan with weekly milestones and governance. Define success metrics and accountable owners.

Key move Document approvals early; otherwise token drift will erode the design system.

PRACTICAL CHECKLIST

- 01** Pilot with one product line and two UI components.
- 02** Week 1: integrate scanner in CI and gather baseline violations.
- 03** Week 2: train developers on token usage via designer docs.
- 04** Week 3: enforce blocking commits for non-compliance in PRs.
- 05** Week 4: assign token owners and establish review cadence.
- 06** Weeks 5-6: broaden tokens, measure impact, update catalog.

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ABOUT THE CREATOR

Suhas Bhairav

I build AI systems that combine distributed architecture, retrieval, knowledge graphs, security, and practical workflow design. My focus is AI that can be used repeatedly by real teams: understandable, reliable, and grounded in the work people already do.

EXPERTISE

- Principal systems architecture and applied AI engineering
- Production-grade AI systems, agentic workflows, RAG, and knowledge graphs
- Full-stack workflow applications across AWS, Google Cloud, Azure, on-premise, and hybrid environments
- Practical AI implementation patterns for automotive, manufacturing, finance, logistics, cybersecurity, sales, and customer operations
- Security, governance, observability, approvals, and failure-mode thinking for operational AI systems

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