

Overview

Minsky CodeAudit is an AI-powered platform that audits, evaluates, and remediates codebases against your Technical Scope Docs, security policies, and quality standards. It goes beyond static reports—it delivers a secure, complete, and compliant code package ready for deployment when used in conjunction with **Minsky CodeGen**.

How it Works? – Process Flow

- **Ingest** – Load Technical Scope Docs, source code, configs, and dependencies.
- **Analyze** – Scans for scope alignment, API usage, vulnerabilities, and stack details.
- **Map & Score** – Build Traceability Matrix; rate quality, scalability, and cloud readiness.
- **Detect Risks** – Flag security flaws (OWASP, CVEs, secrets, IAM, misconfigurations).
- **Plan Remediation** – Generate backlog with fixes, tests, and hardened configurations.
- **Auto-Remediate** – Produce a new branch/artifact with corrected code and compliance pack.
- **Validate & Deliver** – Run tests, generate SBOM, compliance mappings, and final audit report.

Minsky Code Audit Development Flow



Audit Report/Value Proposition

- Scope Compliance → Validate code against Technical Scope Docs.
- Auto-Remediation → Generate fixes, tests, and configs beyond static audits.
- API Risk Control → Catalog & assess external API calls.
- Quality Baselines → Score code for quality, scalability, resilience.
- Security Hardening → Detect & patch vulnerabilities pre-production.
- Tech Stack Visibility → Reveal full stack for modernization planning.
- Regulatory Readiness → Provide SBOM, traceability, compliance packs.
- Enterprise Adoption → Scale audits & remediation across large environments.

Typical Use Cases

- Pre-Release Audit → Validate code compliance, security, and quality before production deployment.
- Legacy Modernization → Assess outdated systems for tech stack, risks, and refactoring needs.
- Regulatory Compliance → Generate audit-ready reports with traceability and SBOM.

Benefits

- ✓ Close the Gap → Ensure code fully matches design/requirements.
- ✓ Eliminate Blind Spots → Full inventory of APIs, dependencies, and risks.
- ✓ Raise Code Quality → Objective scoring across maintainability, scalability, and resilience.
- ✓ Secure by Default → Detect & patch vulnerabilities before production.
- ✓ Faster Releases → Auto-remediated code packages, not just static reports.
- ✓ Enterprise Scale → Works across multi-repo, polyglot stacks, CI/CD integrated.

Minsky CodeAudit turns audits into action—mapping your scope to code, surfacing every API, scoring quality and security, and delivering a ready-to-ship, remediated package.