

RepoScan



RepoScan Whitepaper v1.4

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Overview

RepoScan is a comprehensive GitHub repository analyzer that evaluates open-source projects for Safety and Legitimacy. It provides developers, auditors, and security researchers with instant, data-backed insights to determine whether repositories are secure, authentic, and functional.

Scoring System

RepoScan produces two key scores — Safety and Legitimacy — each represented on a 0–100 scale. The Safety Score evaluates code security, dependency health, and overall hygiene. The Legitimacy Score measures transparency, trustworthiness, and proof that the repository's technology actually works.

Core Features

- Dual-score evaluation for Safety and Legitimacy
- Static and dependency analysis for code integrity
- AI-assisted scanning using Claude API for deeper precision (v2+)
- Community and documentation checks for legitimacy scoring
- Real-time results and persistent storage via Supabase
- Secure, read-only analysis with no code execution

Technology Stack

Frontend: React + TypeScript + Vite + Tailwind CSS

Backend: Supabase Edge Functions (Deno)

Database: Supabase PostgreSQL with Row Level Security

APIs: GitHub REST API v3

AI Integration: Claude API for intelligent pattern recognition and natural language scanning insights

Roadmap

Phase	Feature	Status
v1.0	Dual-score static analysis engine	■ Complete
v1.0	React UI with detailed breakdowns	■ Complete
v1.0	Supabase backend with persistent storage	■ Complete
v1.1	Dependency vulnerability scanning (NVD/Snyk integration)	■ Complete
v1.2	AST-based pattern detection	■ Complete
v2.0	LLM-enhanced deep scanning with Claude API	■ Planned
v2.1	Hybrid Quick Scan vs Deep Scan modes	■ Planned
v2.2	Natural language risk summaries and insights	■ Planned
v2.3	Intelligent code pattern analysis via LLM	■ Planned
v3.0	Browser extension for in-page GitHub scanning	■ Planned
v3.1	Public API with open trust leaderboard	■ Planned

Tokenomics

RepoScan introduces a native utility token that governs access to advanced scanning features. This dual-access model balances free community use with a premium, token-based DeepScan experience powered by Claude.

Launch Phase (Free Access):

- First 24 hours after launch are completely free.
- This allows stress testing and user onboarding while finalizing the Claude-enhanced DeepScan engine (v2).

Post-Launch Access:

Tier	Scan Type	Token Requirement	Description
Free Tier (v1)	Quick Scan	Free	Basic static and dependency analysis with standard Safety Score
Premium Tier (v2)	DeepScan	Burn 100 tokens per scan OR lock 10,000 tokens for 30 days	Advanced dependency analysis with natural language processing and AI integration

The token system offers two access options: users can either burn tokens for per-scan use or lock tokens for unlimited access for 30 days. Burned tokens are permanently removed from supply, creating deflationary pressure, while locked tokens remain in the user's wallet until the lock period ends.

Security & Privacy

RepoScan ensures user privacy and data integrity through read-only analysis. No code is executed, and Supabase Row Level Security protects user data. Claude enhances accuracy while maintaining full compliance and transparency.

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