

# TECH DEBT ASSESSMENT CHECKLIST

A Systematic Approach to Identifying and Prioritizing Technical Debt  
For Tech Leads and Senior Engineers

## ASSESSMENT AREAS

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- Code Quality - smells, complexity, and standards
- Architecture & Dependencies - health and risk
- Testing & Documentation - coverage and gaps
- Infrastructure & Process - CI/CD and workflows
- Scoring & Priority Matrix - quantify your debt

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# Code Quality Assessment

Check each item that applies to your codebase. The more items checked, the higher your technical debt.

## Code Smells & Complexity

- Cyclomatic complexity exceeds team threshold in critical paths
- Duplicated code blocks across 3+ locations
- Methods/functions exceeding 50 lines regularly
- God classes or modules with 10+ responsibilities
- Dead code not removed after feature flags retired

## Code Standards

- Inconsistent naming conventions across modules
- Missing or outdated type definitions
- Suppressed linter warnings without justification
- Hard-coded configuration values in source

# Architecture & Dependencies

## Architecture Health

- Circular dependencies between modules
- Layer violations (UI calling DB directly, etc.)
- Inconsistent patterns for same concern (3+ ways to do auth, logging, etc.)
- Missing or outdated architecture decision records (ADRs)
- Services with unclear ownership boundaries

## Dependency Health

- Dependencies with known CVEs (check npm audit / Snyk)
- Major version behind on framework (2+ major versions)
- Abandoned dependencies (no updates in 12+ months)
- Pinned versions preventing security patches
- Missing lock file or inconsistent lock file

# Testing & Documentation

## Test Coverage

- Unit test coverage below 60% on critical paths
- No integration tests for API endpoints
- No E2E tests for critical user flows
- Tests that are flaky (fail randomly 5%+ of the time)
- Tests that mock everything (testing mocks, not code)

## Documentation

- Missing README for onboarding new team members
- API documentation out of sync with implementation
- Missing runbooks for production incidents
- No changelog or release notes process
- Tribal knowledge not captured anywhere

# Infrastructure & Process

## CI/CD & DevOps

- Build takes longer than 10 minutes
- No automated deployment pipeline
- Manual steps required for releases
- No rollback procedure documented/tested
- Missing health checks or monitoring alerts

## Process Debt

- No code review requirements enforced
- Technical decisions made without documentation
- No regular dependency update schedule
- Incident post-mortems not conducted or not actioned
- No tech debt tracking system (backlog, labels, etc.)

# Scoring & Priority Matrix

Score each item: 0 = Not applicable, 1 = Minor, 2 = Moderate, 3 = Critical

Category	Items	Score
Code Quality	9 items	___ / 27
Architecture	5 items	___ / 15
Dependencies	5 items	___ / 15
Testing	5 items	___ / 15
Documentation	5 items	___ / 15
Infrastructure	5 items	___ / 15
Process	5 items	___ / 15
<b>TOTAL</b>	<b>39 items</b>	<b>___ / 117</b>

## Scoring Guide

- 0 - 25:** Low debt - Maintain current practices
- 26 - 50:** Moderate debt - Allocate 10% sprint capacity
- 51 - 75:** High debt - Allocate 20% sprint capacity, create remediation plan
- 76+:** Critical debt - Executive escalation needed, dedicate team

**Full resources at <https://techdebt.fast/>**