Green Man Tavern - Validation Quick Start Guide

Get Started with Claude Code Audits in 30 Minutes



You're setting up an **automated quality assurance system** using Claude Code to:

- 1. Catch bugs and inconsistencies early
- 2. Prevent architectural drift
- 3. Maintain security and data integrity
- 4. **Track code quality trends**
- 5. Make informed deployment decisions

No setup required — just follow the steps below.



STEP 1: Create Project Standards Document (5 min)

Create this file in your project root:

e: (.claude/project_stand	uarus.mu)		
narkdown			

Green Man Tayern - Code Standards & Conventions

Core Architecture

- **LiveView → Context → Database**: No direct queries from LiveViews
- **User Ownership**: All user-scoped queries filter by user id
- **Personality-Driven**: Characters have distinct voices
- **Greyscale Only**: No colors except for accessibility (#000-#FFF range)

Key Components

- **Seven Seekers**: Student, Grandmother, Farmer, Robot, Alchemist, Survivalist, Hobo
- **Systems Flow Diagram**: Database-backed node visualization
- **Quest System**: Character-driven progression
- **Achievement System**: Milestone tracking
- **MindsDB Integration**: AI agents for character intelligence

Naming Rules

- Modules: GreenManTavern.Domain.Module
- Contexts: GreenManTavern.Domain (no :context suffix)
- LiveViews: [Name]Live
- Tables: snake_case plural (users, user_systems)
- Functions: snake_case

Database Rules

- All tables: inserted_at, updated_at timestamps
- All foreign keys: ON DELETE strategy specified
- All FK columns: Have indexes
- User-scoped data: Filter by user_id in queries

Testing Minimum

- Contexts: >80% test coverage
- LiveViews: Happy path + error cases
- Integration: Full user journey tested

Security Rules

- Authenticate before showing protected pages
- Filter all user-scoped data by current_user_id
- Validate all server-side form input
- Sanitize user content before display
- Never show other users' data

Session Management

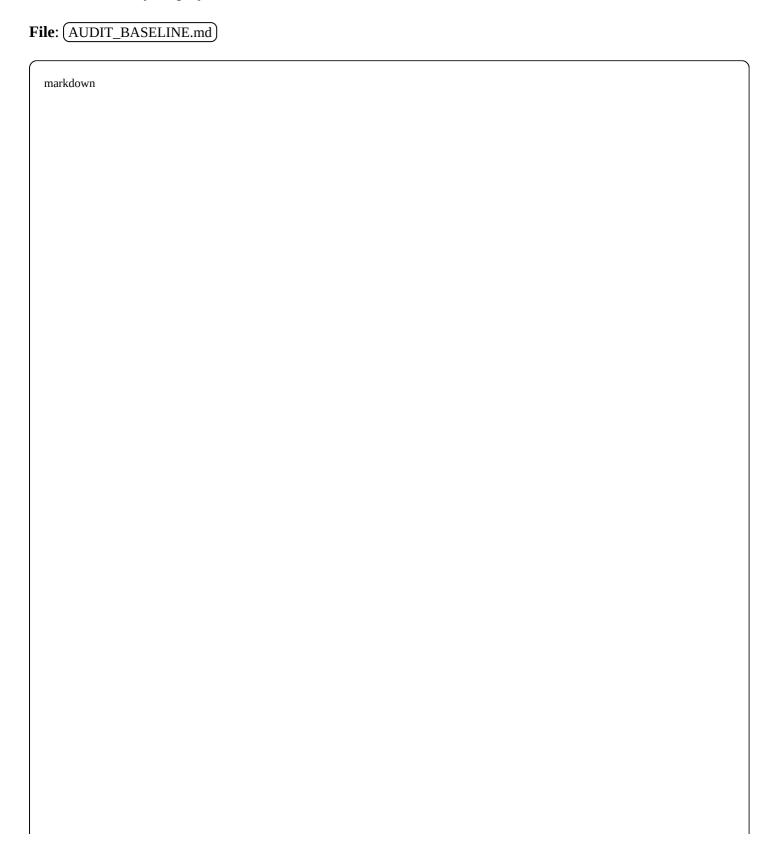
- Sessions timeout: 24 hours
- CSRF protection: On all forms
- HTTPS: Enforced in production
- Password requirements: Min 12 chars, strong

Character Agent Integration

- Agents access only current_user's data
- Responses cached for 5 minutes
- Fallback to rule-based if MindsDB slow
- All agent calls logged for debugging

STEP 2: Create Baseline Audit Tracker (5 min)

Create this file in your project root:



Green Man Tavern - Audit Baseline **Establish your code quality starting point** ## Initial Audit Date: [TODAY] Auditor: Claude Code ## Metrics Snapshot - Codebase size: [X] lines - Test coverage: [X]% - Number of modules: [X] - Number of LiveViews: [X] - Number of tables: [X] - Total tests: [X] ## Critical Issues Found - [List any CRITICAL issues discovered] ## High-Priority Issues (Fix in next 2 weeks) - [List top 5-10 items] ## Medium-Priority Issues (Fix in next month) - [List next tier items] ## Reference Documents - see: `.claude/audit_results/` for detailed reports - see: `.claude/project_standards.md` for conventions ## Trends to Monitor - Test coverage: Trending up/down/stable? - Code quality: Improving/stable/declining? - Performance: Getting faster/slower? - Security: Any new issues? ## Next Review: [Date 1 week from today]

STEP 3: Create Implementation Log (5 min)

Create this file in your project root:

File: (IMPLEMENTATION_LOG.md)

markdown

Green Man Tavern - Implementation Progress Log ## COMPLETED FEATURES 🗸 - [x] User authentication (passwords, sessions) - [x] Character system (all 7 Seekers defined) - [x] Database schema (13 tables) - [x] HyperCard UI components - [x] Banner navigation - [x] Left/right window layout - [x] User profile management - [] MindsDB agent integration -[] Quest system - [] Achievement system - [] Opportunity detection algorithm -[] Full integration testing **## CURRENT FOCUS** Working on: [What are you working on THIS WEEK?] Expected completion: [Date] ## KNOWN ISSUES & WORKAROUNDS 1. **Issue**: [Description] **Status**: In progress / Blocked by [X] / Workaround: [Y] 2. **Issue**: [Description] **Status**: [Status] ## TECHNICAL DEBT -[] [Item 1]: Would take ~[time] to fix -[] [Item 2]: Would take ~[time] to fix - [] [Item 3]: Would take ~[time] to fix ## AUDIT RESULTS SUMMARY Last audit: [Date] Key findings: [Brief summary] Actions taken: [What did you fix?] **## METRICS TREND** | Date | Coverage | Tests | Modules | Issues |

|-----|------|-----|

| Today | [X]% | [X] | [X] | [X] |

|-1wk|[X]%|[X]|[X]|[X]|

|-2wk|[X]%|[X]|[X]|[X]|

NEXT MILESTONES

1. [Milestone 1]: Target date [Date]

- 2. [Milestone 2]: Target date [Date]
- 3. [Milestone 3]: Target date [Date]

DEPLOYMENT READINESS

- -[] All tests passing
- -[] No critical security issues
- [] Performance acceptable
- -[] Documentation complete
- -[] Backup strategy in place

STEP 4: Create Audit Results Folder (1 min)

bash

mkdir -p .claude/audit_results

This is where Claude Code will save audit reports.



₹ STEP 5: Run Your First Audit (10 min)

Open Claude Code and run:

Run a comprehensive structural audit of the Green Man Tavern Phoenix

LiveView + MindsDB codebase. Generate a detailed report covering:

PART 1: CODEBASE OVERVIEW

- Directory structure and file organization
- All LiveView modules (count, purposes, patterns)
- All Context modules (count, what they manage)
- Identify dead code or orphaned files
- Module dependency graph (any circular dependencies?)

PART 2: DATABASE SCHEMA INTEGRITY

- List all tables, their purposes, and which Context manages them
- Verify all foreign keys have ON DELETE strategies
- Check for missing indexes on foreign keys
- Identify normalized vs denormalized tables
- Find any tables not used by any code

PART 3: SECURITY & DATA ACCESS

- How is current_user determined across the app?
- Are all user-scoped queries filtering by user_id?
- Can user A access user B's data? (if so: CRITICAL issue)
- Any raw SQL queries that could have injection risks?
- Character agent data access: can agents see other users' data?

PART 4: ARCHITECTURE CONSISTENCY

- Are all LiveViews following LiveView → Context → Database pattern?
- Do all Contexts return {:ok, data} / {:error, reason}?
- Are all HTTP handlers properly protected?
- Do all user-facing features reference current_user?

PART 5: THE SEVEN SEEKERS SYSTEM

- Are all seven characters fully implemented?
- Do all characters have personality data for agent prompts?
- Is trust system properly tracked?
- Are character pages consistently styled?

PART 6: SYSTEMS FLOW DIAGRAM (LIVING WEB)

- Is database schema properly storing nodes and connections?
- Are there tests verifying the diagram integrity?
- Is opportunity detection algorithm implemented?
- Are all system types properly categorized?

PART 7: TESTING COVERAGE

- Total test count and coverage percentage
- Which Contexts have no tests?
- Which LiveViews have no tests?

- Are there integration tests covering full user journeys?

PART 8: NAMING CONVENTIONS

- Are all modules named GreenManTavern.Domain.Module?
- Are all LiveViews named with Live suffix?
- Are all tables named snake_case plural?
- Are all functions snake_case?

PART 9: DOCUMENTATION

- Does each module have @moduledoc?
- Do public functions have @doc with examples?
- Is the architecture documented?
- Is there a README for developers?

OUTPUT: Create a structured report with:

- Status for each section (pass/warning/critical)
- Specific issues found with line numbers/file paths
- Top 10 priorities ranked by severity
- Recommendations for each issue

Save the full report to: .claude/audit results/initial audit.md

STEP 6: Process the Results (5 min)

After Claude Code runs:

- 1. **Read the output** (will be very detailed)
- 2. **Identify CRITICAL issues** (fix immediately)
- 3. **Create tickets** for High-priority issues ()
- 4. **Note Medium/Low priorities** (nice to have)

Update your (AUDIT_BASELINE.md) with key findings.

To STEP 7: Schedule Ongoing Checks

Add these to your calendar:

Weekly (Every Monday at 9:00 AM)

- "Run weekly health check in Claude Code"
- Takes 5 minutes
- Identify any new issues

Bi-Weekly (Every Thursday at 9:00 AM)

- "Run architecture drift check in Claude Code"
- Takes 10 minutes
- Verify patterns still being followed

Monthly (1st of month at 9:00 AM)

- "Run full integration test in Claude Code"
- Takes 15 minutes
- Test complete user journey

Quarterly (End of each quarter)

- "Run deep audit in Claude Code"
- Takes 30 minutes
- Compare to baseline, identify trends

III Example: What a Report Looks Like

Claude Code will produce something like:

AUDIT REPORT: Green Man Tavern Initial Audit

Date: 2025-01-20

Status: ATTENTION NEEDED

PART 1: CODEBASE OVERVIEW

Directory structure well organized

✓ 12 LiveView modules identified

8 Context modules identified

♠ Found 2 orphaned files: old_character_page.ex, legacy_form.ex

⚠ Found 1 circular dependency: SystemsContext → CharsContext → SystemsContext

PART 2: DATABASE SCHEMA

✓ 13 tables, all with timestamps

All foreign keys have ON DELETE CASCADE

Missing index on user_systems.user_id (queried frequently)

⚠ user_connections.user_id index exists but missing on type+user_id composite

PART 3: SECURITY & DATA ACCESS

⚠ UserSystems LiveView: Queries systems but doesn't verify user ownership

CRITICAL: Direct Ecto.Repo query in CharacterLive - bypasses Context

⚠ MindsDB context builder: Could expose other user's systems in rare cases

... [continued detailed analysis] ...

TOP 10 PRIORITIES:

1. CRITICAL: Fix CharacterLive direct database query (1 hour)

2. CRITICAL: Add user_id filter to UserSystems query (30 min)

3. HIGH: Remove circular dependency (2 hours)

4. HIGH: Add composite index on user_connections (15 min)

5. HIGH: Test MindsDB context for data leaks (1 hour)

6. HIGH: Add @doc comments to 15 public functions (1.5 hours)

7. MEDIUM: Delete 2 orphaned files (5 min)

8. MEDIUM: Add test for user isolation (1 hour)

9. MEDIUM: Document Seven Seekers system (30 min)

10. LOW: Add Monica theme to README (15 min)

RECOMMENDATIONS:

- Fix the 3 critical/high items immediately
- Schedule 2-hour refactoring session this week
- Add security tests to CI pipeline
- Document architecture patterns

Checklist: First Week Setup
Created (.claude/project_standards.md)
Created (AUDIT_BASELINE.md)
☐ Created (IMPLEMENTATION_LOG.md)
Created .claude/audit_results/) folder
Ran initial audit with Claude Code
Read and understood initial audit results
Created tickets for CRITICAL/HIGH issues
Added weekly/monthly reminders to calendar
■ Bookmarked (.claude/audit_results/) for easy access
☐ Shared Claude Code audit approach with any team members
© Quick Reference: What to Do When When you write code:
"Does this follow .claude/project_standards.md?"
- Use LiveView → Context → Database pattern?
- Filter by current_user_id for user data?
- Have tests?
- Documented?
Before committing:
"Run quick code review in Claude Code"
Every Monday morning:
"Run weekly health check in Claude Code"
Before deploying to production:
"Run pre-deployment checklist in Claude Code"
When something feels messy:
"Run refactoring guidance in Claude Code"

When a user reports a bug:

"Run security audit in Claude Code" (to ensure it's not a data leak)

"Run custom module audit in Claude Code" (for the affected module)

SOS Troubleshooting

Q: Claude Code says "Module not found" or "File not found"

A: Claude Code needs to be able to see your file structure. Make sure your repository root is clean (no node_modules, build artifacts) and all code is in lib/, test/, priv/ directories.

Q: Audit takes a long time

A: Normal for first audit (~2-5 min). Subsequent audits are faster. You can run audits during breaks.

Q: Claude Code output is overwhelming

A: Focus on the CRITICAL issues () first. High-priority () in the next sprint. Medium/Low () can be batched for tech debt days.

Q: How do I know if I should deploy?

A: Check the Pre-Deployment Checklist report. If it says " DO NOT DEPLOY" — don't. If " SAFE TO DEPLOY" or " WITH CAUTION" — proceed as documented.

Q: What if I disagree with a recommendation?

A: Document it in (IMPLEMENTATION_LOG.md). Keep notes on decisions made. Share with team if applicable.

Q: Can I run audits on just one module?

A: Yes! Use the "CUSTOM: Check Specific Module" prompt in the Claude Code prompts document. Specify the module name.

Tracking Progress Over Time

Week 1 Baseline

Coverage: 45%

Tests: 120

Critical Issues: 3

Time to Deploy: 4+ hours

Week 4 (After fixes)

Coverage: 62%

Tests: 187

Critical Issues: 0

Time to Deploy: 1 hour

Week 12 (One quarter)

Coverage: 78%

Tests: 287

Critical Issues: 0

Time to Deploy: 30 min

Keep this trend visible to celebrate progress!



Tearning Path

If you're new to this approach:

- 1. Read the "Quick Start Guide" (this document)
- 2. Complete all steps in "First Week Setup"
- 3. Run the initial audit
- 4. Fix the CRITICAL issues
- 5. Run weekly health checks
- 6. After 4 weeks, run a trend analysis

If you're integrating with a team:

- 1. Share (.claude/project_standards.md) with team
- 2. Explain why these standards matter
- 3. Show example audit report
- 4. Agree on what "Critical" vs "High" means for your team
- 5. Add audit results to your team's documentation

If you want to go deeper:

- 1. Read "Structural Validation & Consistency Strategy" (full document)
- 2. Understand each audit type's purpose

- 3. Customize prompts for your team's needs
- 4. Build additional checks as needed

You're Ready!

You now have:

- **A quality assurance system** powered by Claude Code
- **Documented standards** all code should follow
- **Baseline metrics** to track progress
- **Regular checkpoints** to catch issues early
- Clear deployment criteria before shipping
- **A way to prevent technical debt** from accumulating

Next Step:

Open Claude Code and run your first audit right now.

It will take 10-15 minutes, and you'll immediately know where your project stands.

Reference: All Documents

You now have these documents:

1. **Structural Validation & Consistency Strategy** (Full Strategy)

- Comprehensive overview of the entire approach
- Part 1: Initial deep audits (6 types)
- Part 2: Ongoing periodic checks (weekly/bi-weekly/monthly/quarterly)
- Part 3: Setup & maintenance documentation
- Part 4: Claude Code workflow
- Part 5: Documentation for each check

2. Claude Code Prompts (Ready-to-Use)

- 13 different prompts
- Copy/paste directly into Claude Code
- Each prompt is self-contained and specific

3. **Quick Start Guide** (This Document)

• Get up and running in 30 minutes

- Step-by-step setup
- Examples and troubleshooting
- · Learning paths

Save These Locally:

```
bash

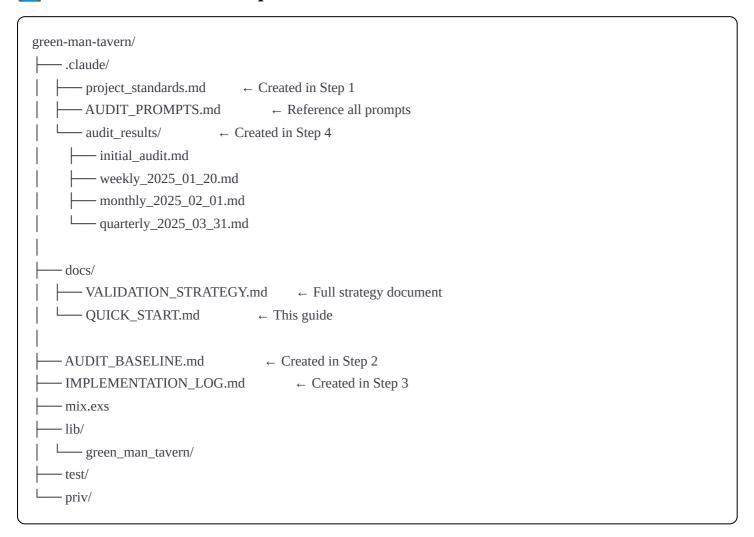
# Copy to your project

cp "Structural Validation & Consistency Strategy.md" docs/VALIDATION_STRATEGY.md

cp "Claude Code Prompts (Ready-to-Use).md" .claude/AUDIT_PROMPTS.md

cp "Quick Start Guide.md" docs/QUICK_START.md
```

💾 File Structure After Setup



© Success Metrics

Your validation system is working well when:

- Weekly audits run quickly (5 min) with no surprises
- **No new Critical issues** appear unexpectedly
- **Test coverage** trending upward over time
- ✓ **Architecture patterns** consistent across all code
- Security audits finding zero authentication/authorization issues
- Pre-deployment checklist green before shipping
- **Developers** confident in code quality
- **Refactoring decisions** data-driven (based on audit results)

Support

If you get stuck:

- 1. **Check the troubleshooting section** (earlier in this doc)
- 2. **Review the full strategy document** for more context
- 3. **Re-read the specific audit prompt** to understand what Claude Code is checking
- 4. **Add your own notes** to [IMPLEMENTATION_LOG.md] for future reference

🎉 Congratulations!

You've set up a **professional-grade code quality assurance system** for Green Man Tavern.

You're now equipped to:

- Catch bugs before they reach users
- Prevent architectural drift
- Make data-driven deployment decisions
- Maintain consistent code quality
- Track progress over time
- Onboard new developers confidently

Your next action:

Run your first audit in Claude Code RIGHT NOW. Don't wait.

Takes 15 minutes. You'll immediately understand your codebase's health.

Version: 1.0
Date: Today

Status: Ready to implement

Questions? Check <u>.claude/project_standards.md</u> or the full strategy document.