

Claude Code vs Codev: Round 1 Comparison

2026-02-13

Contents

Vibe Coding vs. SPIR: Todo Manager Comparison	1
Methodology	1
Scorecard	2
Individual Reviewer Scores	2
Averaged Scores	2
Quantitative Comparison	2
Bug Sweep Synthesis	3
Vibe Bugs (consensus)	3
SPIR Bugs (consensus)	4
Cross-cutting: Shared Weaknesses	5
Architecture Comparison	5
Vibe	5
SPIR	5
Test Quality Deep Dive	5
Vibe (235 lines, 3 files)	5
SPIR (1,743 lines, 8 files)	6
NL Interface Comparison	6
Deployment Readiness	6
Reviewer Agreement Analysis	7
Key Takeaways	7
Appendix: Raw Review Outputs	8

Vibe Coding vs. SPIR: Todo Manager Comparison

Date: 2026-02-13 PRs: Vibe PR #1 | SPIR PR #1 Reviewers: Claude Opus 4.6, GPT-5.3 Codex, Gemini 3 Pro

Methodology

Two Claude instances received the **identical prompt** to build a Todo Manager (Next.js 14+, TypeScript, localStorage, NL interface, Railway-ready). The only difference: the SPIR builder was told to use porch strict mode with 3-way multi-agent consultation at every checkpoint. Both ran with **--dangerously-skip-permissions** in fresh repos.

After both completed and submitted PRs, three independent AI reviewers (Claude, Codex, Gemini)

reviewed each codebase blind — reading all source files, running bug sweeps, and rating seven dimensions.

Scorecard

Individual Reviewer Scores

Dimension	Claude Vibe	Claude SPIR	Codex Vibe	Codex SPIR	Gemini Vibe	Gemini SPIR
Code Quality	6	8	6	7	8	8
Maintainability	6	8	6	7	9	8
Tests	3	8	4	8	5	7
Extensibility	5	7	5	6	7	7
NL Interface	7	6	5	6	6	6
Deployment	5	7	4	8	9	9

Averaged Scores

Dimension	Vibe (avg)	SPIR (avg)	Delta
Code Quality	6.7	7.7	+1.0
Maintainability	7.0	7.7	+0.7
Tests	4.0	7.7	+3.7
Extensibility	5.7	6.7	+1.0
NL Interface	6.0	6.0	0.0
Deployment	6.0	8.0	+2.0
Overall	5.9	7.3	+1.4

Quantitative Comparison

Metric	Vibe	SPIR
Source lines (excl. tests)	916	1,596
Test lines	235	1,743
Test-to-code ratio	0.26:1	1.09:1
Test files	3	8
Component tests	0	288 lines
Integration tests	0	196 lines
Git commits	1	14
Documentation artifacts	0	spec + plan + review + 30 consultation files
Dockerfile	No	Yes (multi-stage)

Bug Sweep Synthesis

All three reviewers independently reviewed the code. Below are the bugs **confirmed by 2+ reviewers** (high confidence) and those found by only one.

Vibe Bugs (consensus)

Bug	Severity	Found by	Description
Broken update NL command	Critical	Claude, Codex, Gemini	<code>nlParser.ts</code> fuzzy-matches the entire command body (including priority/date text) against todo titles. “update buy milk high priority” searches for “buy milk high priority” instead of “buy milk”. <code>saveTodos()</code> in <code>storage.ts:18</code> does raw <code>setItem()</code> with no try/catch. <code>QuotaExceededError</code> crashes the app with no user feedback.
No local-Storage error handling	High	Claude, Codex, Gemini	<code>storage.ts:18</code> does raw <code>setItem()</code> with no try/catch. <code>QuotaExceededError</code> crashes the app with no user feedback.
No data validation on load	Medium	Claude, Codex, Gemini	<code>loadTodos()</code> casts parsed JSON to <code>Todo[]</code> without schema checks. Corrupt/tampered data can break rendering.
Aggressive prefix stripping	Medium	Claude, Gemini	<code>stripIntentPrefix</code> removes command keywords. “Add task management” becomes an attempt to create “management” (or worse, interprets “update” in “Update the documentation” as a command).
No delete confirmation	Medium	Claude	Clicking delete immediately removes the todo. No undo, no confirmation dialog.
Fuzzy match returns first, not best	Medium	Claude, Gemini	<code>fuzzyMatch</code> returns the first substring match. “delete buy” with todos “buy groceries” and “buy milk” silently deletes whichever comes first. No disambiguation.
No input validation	Medium	Claude	No max-length on title/description. Users can paste arbitrary content.

Bug	Severity	Found by	Description
No test script in package.json	Low	Claude, Codex	npm test does nothing. CI/CD would fail.
Font setup conflict	Low	Codex	Layout imports Geist font but CSS overrides with Arial.

SPIR Bugs (consensus)

Bug	Severity	Found by	Description
Date range filter not connected	Critical	Codex, Gemini	NL commands like “show todos due this week” parse correctly but the dateRange filter is never applied to the UI. NLInput stores feedback only; page.tsx clears date range in setFilters.
Data wipe on corrupt load	High	Gemini	If loadTodos() fails (corrupt JSON), it returns empty array. isLoading becomes true, triggering save — overwriting localStorage with [].
cleanTitle strips meaningful words	Medium	Claude, Codex	nl-parser.ts:101 strips “task”, “todo” globally. “add task management” becomes “management”.
Limited date parsing	Medium	Claude	Only supports “today”, “tomorrow”, weekdays, “this/next week”. No specific dates (“March 15”), no relative dates (“in 3 days”). Vibe’s chrono-node handles these.
updateTodo silent no-op	Medium	Codex	useTodos.ts:103 returns null after map regardless of match. Updates to non-existent IDs report success.
onDelete prop unused	Low	Claude, Codex, Gemini	TodoItem receives onDelete but uses onRequestDelete. Dead code.
ConfirmDialog hard-coded “Delete”	Low	Codex, Gemini	Button text is always “Delete” even for non-delete confirmations.

Cross-cutting: Shared Weaknesses

Both implementations share these problems:

- **No multi-tab sync:** Neither listens for `storage` events. Opening two tabs causes stale state.
- **Regex-based NL parsing:** Both use regex state machines that will become unmaintainable as commands grow. All three reviewers noted this.
- **No accessibility testing:** Neither has ARIA compliance tests.
- **No E2E browser tests:** Neither includes Playwright/Cypress tests.

Architecture Comparison

Vibe

- **State:** React Context + `useReducer` — clean, well-known pattern
- **NL:** Single `parseCommand()` function couples parsing AND execution (takes `todos[]`, returns `TodoAction`)
- **Storage:** Two bare functions (`loadTodos`/`saveTodos`), no error handling
- **Components:** 7 components, flat hierarchy, minimal prop drilling
- **Dependencies:** Uses `chrono-node` for date parsing (big advantage)

SPIR

- **State:** Custom `useTodos` hook with validation, error surfacing, filtering, and sorting built in
- **NL:** Two-layer architecture — `parseNL` (pure parser) + `executeNL` (executor with deps injection). Independently testable.
- **Storage:** Typed errors (`StorageError`), availability checking, quota handling
- **Components:** 6 components + `ConfirmDialog` + `EmptyState`, more prop drilling but more testable
- **Dependencies:** No external date parser (limitation), but also no supply-chain risk

Key architectural advantage of SPIR: The parser/executor split. The parser is a pure function `string → NLCommand`. The executor takes `NLCommand + Dependencies → NLResult`. This makes both independently testable and swappable. The vibe version's `parseCommand` is a monolith that requires live todo state to produce results.

Key architectural advantage of Vibe: The `useReducer` pattern is naturally suited for undo/redo (state history stack). SPIR's `useState` in `useTodos` would need more refactoring for this.

Test Quality Deep Dive

Vibe (235 lines, 3 files)

- `nlParser.test.ts` (113 lines): 13 happy-path tests for add/complete/delete/show
- `storage.test.ts` (57 lines): 4 tests for round-trip, invalid JSON
- `todoReducer.test.ts` (65 lines): 5 tests for ADD/UPDATE/DELETE/TOGGLE/LOAD

Not tested: Components, date parsing, edge cases, filter behavior, NL update command (the broken one), error states.

SPIR (1,743 lines, 8 files)

- `nl-parser.test.ts` (224 lines): 20 tests including case variations, compound filters
- `nl-executor.test.ts` (248 lines): 12 tests including disambiguation, bulk delete
- `date-parser.test.ts` (93 lines): 11 tests with frozen time
- `storage.test.ts` (124 lines): 10 tests including quota exceeded, corrupted data
- `useTodos.test.ts` (558 lines): 28 tests covering filtering, sorting (6 scenarios), validation
- `components.test.tsx` (288 lines): 18 tests using Testing Library with user interactions
- `integration.test.ts` (196 lines): 8 end-to-end NL pipeline tests including multi-step workflow
- `setup.test.ts` (12 lines): Environment verification

SPIR's standout: The integration tests simulate the full NL pipeline from string input to store mutation, including a multi-step workflow test that creates, queries, updates, and deletes in sequence.

NL Interface Comparison

Capability	Vibe	SPIR
Add with priority	Yes	Yes
Add with flexible dates	Yes (chrono-node)	Limited (hardcoded keywords)
Complete by name	Yes (fuzzy)	Yes (substring)
Delete with confirmation	No	Yes
Bulk delete	No	Yes (“remove completed”)
Change priority via NL	Broken	Yes
Set due date via NL	No	Yes
Filter by date range	No	Parsed but not connected
Disambiguation	No (first match)	Yes (shows options)
Mark as pending	No (toggle only)	Yes
Error with usage hints	No	Yes

Verdict: SPIR has more NL features and better safety (disambiguation, confirmation). Vibe has significantly better date parsing via `chrono-node`. The ideal implementation would combine SPIR’s architecture with Vibe’s date parsing library.

Deployment Readiness

Aspect	Vibe	SPIR
<code>next.config.ts</code> standalone	Yes	Yes
Railway config	<code>railway.toml</code> (nixpacks)	No

Aspect	Vibe	SPIR
Dockerfile	No	Yes (multi-stage, non-root)
.gitignore	Yes	Yes
README	No	Yes
Health check	No	No
CI/CD	No	No
Test script in package.json	No	Yes

SPIR's Dockerfile is production-grade: multi-stage build, non-root user (`nextjs:nodejs`), static assets separated, `HOSTNAME=0.0.0.0`. Vibe relies entirely on Railway's nixpacks, which is platform-locked.

Reviewer Agreement Analysis

Where all three reviewers **agreed**: - SPIR has significantly better test coverage (unanimous) - Both NL parsers are regex-based and will become unmaintainable (unanimous) - Neither has XSS vulnerabilities (React auto-escaping protects both) - No real race conditions in either (single-tab, synchronous storage) - SPIR has better architecture (parser/executor split praised by all)

Where reviewers **disagreed**: - **Gemini rated Vibe maintainability 9/10** vs Claude/Codex at 6/10. Gemini emphasized the small codebase and simplicity; Claude/Codex penalized the lack of abstractions and NL coupling. - **Gemini rated Vibe deployment 9/10** vs Claude at 5/10 and Codex at 4/10. Gemini gave credit for Railway config; Claude/Codex penalized the missing Dockerfile and test script. - **Claude rated Vibe NL 7/10** vs Codex at 5/10. Claude gave credit for chrono-node's flexibility; Codex focused on the broken update command.

Key Takeaways

1. **SPIR's biggest wins are in testing (+3.7) and deployment (+2.0)**. The structured methodology forced the builder to write comprehensive tests and a production Dockerfile. The vibe builder treated both as afterthoughts.
2. **NL Interface was a draw (6.0 vs 6.0)**. SPIR has more features (disambiguation, bulk ops, confirmation), but Vibe's `chrono-node` gives it significantly better date handling. Both are limited by regex parsing.
3. **SPIR costs ~74% more code** (1,596 vs 916 source lines) but delivers **7.4x more tests** (1,743 vs 235 test lines). The extra code buys validation, error handling, and safety features the vibe version lacks entirely.
4. **SPIR has a documentation trail** (spec + plan + review + 30 consultation artifacts). A new developer can understand *why* decisions were made. Vibe has a single commit with no rationale.
5. **Vibe's one clear advantage**: dependency choice. Using `chrono-node` for date parsing was a smart, pragmatic decision that SPIR's consultation-driven approach didn't produce. This

suggests CMAP excels at catching bugs and enforcing quality, but doesn't necessarily improve creative problem-solving or library selection.

6. **Both share the same fundamental limitation:** regex-based NL parsing. Neither reviewer panel suggested an LLM-based or proper NLP approach, which would be the real solution for production-quality natural language interfaces.
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Appendix: Raw Review Outputs

Reviewer	Vibe	SPIR
Claude	Agent a4ff1d0 (deep comparison)	Agent a4ff1d0 (deep comparison)
Codex	/tmp/codex-vibe-review.txt	/tmp/codex-spir-review.txt
Gemini	/tmp/gemini-vibe-review.txt	/tmp/gemini-spir-review.txt