

Sprint 1 Retrospective

Sprint: Sprint 1

Date: February 19, 2026

What Went Well

1. Clear Planning Paid Off

- Having detailed user stories with acceptance criteria made implementation straightforward
- Story point estimates were accurate — completed exactly 7 points as planned

2. CI/CD Setup Was Smooth

- GitHub Actions configured quickly with matrix testing (Node 18.x and 20.x)
- Pipeline passed on first run after push

3. Test-Driven Approach

- Writing comprehensive tests helped catch edge cases early
- Achieved 91%+ code coverage
- Tests serve as documentation for API behavior

4. Incremental Commits

- Made 4 focused commits showing clear progression
- Each commit represented a logical unit of work
- Easy to track what changed and when

What Didn't Go Well

1. Git Authentication Issues

- Encountered credential conflicts when pushing to GitHub
- Had to use GitHub Desktop as workaround
- Lost time troubleshooting authentication

2. Implemented More Than Planned

- Built Update (US-4) and Delete (US-5) endpoints in Sprint 1
- Should have stuck strictly to Sprint 1 scope
- Made it harder to demonstrate incremental delivery across sprints

3. No Logging from the Start

- Didn't include console logging for API operations
- Will need to add this in Sprint 2
- Should have been part of initial setup

Action Items for Sprint 2

Improvement 1: Add Structured Logging

What: Implement console logging for all API operations (create, read, update, delete)

Why: Need observability into API behavior; required for Sprint 2 monitoring deliverable

How: Add `console.log` statements in controller methods with operation type, task ID, and timestamp

Improvement 2: Commit More Frequently

What: Make smaller, more frequent commits during implementation

Why: Current commits bundle multiple changes; harder to demonstrate truly incremental work

How: Commit after each logical change (e.g., separate commits for each endpoint, tests, validation)

Improvement 3: Test Edge Cases First

What: Write failing tests before implementing features

Why: Caught some edge cases late in Sprint 1 (e.g., empty string validation)

How: Follow strict TDD: write test → see it fail → implement → see it pass

Key Learnings

1. Agile Planning Works

- Breaking work into user stories with clear acceptance criteria made it easy to know when "done" was done
- Sprint planning helped focus effort on high-priority items

2. CI/CD Catches Issues Early

- Pipeline ran tests automatically on push

- Would catch regressions before they reach production

3. DevOps is About Automation

- Automated tests + automated pipeline = confidence in deployments
- Manual testing doesn't scale

Sprint 2 Focus

- Complete US-4 (Update Task) and US-5 (Delete Task) with proper commit history
- Add logging/monitoring as planned
- Apply the 3 improvements identified above
- Maintain 90%+ test coverage