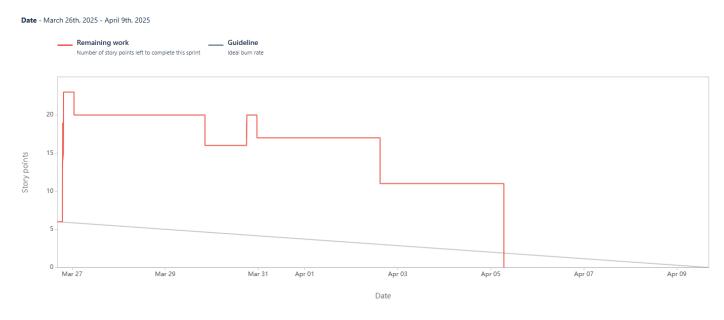# Sprint 4 Burndown Chart Analysis

Sprint Overview

- **Sprint Name:** SCRUM Sprint 4

- **Sprint Duration:** March 26, 2025 – April 4, 2025

- **Estimation Field:** Story Points

- **Total Story Points at Sprint Start:** 22

- **Scope Adjustments:** Minor mid-sprint fluctuations; final commitment remained 22 story points

- **Completed Work:** 22 story points

- **Incomplete Work:** 0

Burndown Chart Analysis

The Sprint 4 burndown chart reflects a well-executed and balanced iteration.

- Initial fluctuations on March 26 and 27 were caused by grooming and refining story point estimates.

- A plateau from March 28 to April 1 suggests team members were engaged in foundational development and backend integration, with no story completions logged.

- On April 2, a noticeable drop indicates bulk completion of critical tasks like notification system logic, UI refactoring, and group dashboard features.

- The team maintained steady progress, burning down the remaining points by April 5—four days ahead of schedule.

This consistent progress illustrates the team's improved pacing and task coordination.

Velocity Comparison

- **Sprint 2 Velocity:** 44 SP

- **Sprint 3 Velocity:** 26 SP

- **Sprint 4 Velocity:** 22 SP

- **Change from Sprint 3:** –4 SP

While velocity decreased slightly, **100% of the committed work was completed early**, showing that the scope was properly defined and effectively executed.

Key Takeaways

1. **Strong Execution and Predictability:** Early sprint completion shows improved forecasting and time management.

2. **Effective Parallel Workflows:** Dividing responsibilities across backend/frontend minimized bottlenecks.

3. **Mature Delivery Rhythm:** All tasks were completed without last-minute rushing, showing team maturity and sustainable velocity.