Sprint Duration:
Start Date: Feb 19, 2025
End Date: March 7, 2025

Sprint Velocity:
Sprint 1 Velocity: 11/27
Sprint 2 Velocity: 42/68

Reflection:
The burndown chart for Sprint 2 indicates that the majority of the tasks were completed toward the end of the sprint. This pattern was influenced by midterms and holidays, which reduced productivity at the start. The change in velocity was similarly affected. However, based on our performance in Sprint 1, we took on additional story points in this sprint, confident that the team could manage the workload effectively.

Burndown Chart Explanation:
Sprint 2's burndown chart features minor spikes followed by significant drops near the end. The small spikes represent additional minor tasks, such as code refactoring (e.g., variable name standardization). The larger dips might suggest that tasks were only being addressed at the end of the sprint, but in reality, many tasks were broken down into smaller subtasks. These subtasks were distributed among team members and worked on incrementally. Since certain subtasks were interdependent, completing an entire task often took the full sprint duration. The final dips occurred when all related subtasks were completed, allowing tasks to be marked as done in bulk.

We decided to increase the estimated velocity for Sprint 2 because team members had a better understanding of the technologies involved, reducing ramp-up time. Unlike Sprint 1, where learning curves slowed progress, this sprint benefited from prior experience. Many tasks in this sprint were also extensions of previous sprint work, allowing for a smoother development process.