

Agile Sprint Planning and Velocity Report

Project: Shopmart
Date: 20 JULY 2025
Team ID: LTVIP2025TMID48243

Terminology

- **Sprint:** A fixed 5-day period in which a focused set of backend tasks is completed.
- **Epic:** A major feature such as authentication, product CRUD, or order management.
- **Story:** A task derived from an epic, designed to be completed within a sprint.
- **Story Points:** Estimate of effort based on complexity using Fibonacci scale:

Story Point Effort Level

1	Very Easy
2	Easy
3	Moderate
5	Difficult

Sprint 1: (5 Days)

Epic: User Authentication & Database Setup

Task	Story Points
Setup Express.js server	1
MongoDB connection with Mongoose	2
User model and schema creation	2
Register/Login API implementation	3
JWT Authentication Middleware	2

Total Story Points (Sprint 1): 10

Sprint 2: (5 Days)

Epic: Product and Order Module Development

Task	Story Points
Product model and CRUD API	3
Order model and API	3
Middleware for Admin role-based access	3
Integration and route testing	2
Error handling and validations	2

Total Story Points (Sprint 2): 13

Velocity Calculation

- **Total Story Points Completed:** 10 (Sprint 1) + 13 (Sprint 2) = **23**
 - **Total Number of Sprints:** 2
 - **Velocity** = $23 / 2 = 11.5$ **Story Points per Sprint**
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Conclusion

The current team velocity is **11.5 story points per sprint**, meaning the team can confidently plan and complete 11–12 points of backend development in each 5-day sprint cycle. This velocity will help estimate timelines for implementing future modules like feedback, admin dashboard, and frontend integration.