

## Project Planning Phase

### Project Planning Template (Product Backlog, Sprint Planning, Stories, Story points)

Date	31 <sup>st</sup> October 2025
Team ID	NM2025TMID06633
Project Name	Medical Inventory Management
Maximum Marks	5 Marks

### Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Use the below template to create product backlog and sprint schedule

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Product Management	USN-1	As an admin, I can add and manage medical products in the inventory.	3	High	Selva Rubavathy M
Sprint-1	Supplier Management	USN-2	As an admin, I can register and update supplier details for purchase orders.	2	High	Dhivyazhini J
Sprint-2	Purchase Order Creation	USN-3	As a system admin, I can generate and track purchase orders automatically.	4	High	Janani C
Sprint-2	Inventory Tracking	USN-4	As an inventory manager, I can view real-time stock levels and expiry dates.	3	Medium	Selva Rubavathy M

Sprint-3	Reports & Dashboard	USN-5	As an admin, I can view inventory analytics and supplier performance reports.	3	Medium	Dhivyazhini J
Sprint-3	Documentation	USN-6	As a developer, I want to document all modules and technical configurations.	2	Medium	Janani C

### Project Tracker, Velocity & Burndown Chart: (4 Marks)

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	20	6 Days	05 Oct 2025	10 Oct 2025	20	10 Oct 2025
Sprint-2	20	6 Days	11 Oct 2025	16 Oct 2025	19	16 Oct 2025
Sprint-3	20	6 Days	17 Oct 2025	22 Oct 2025	20	22 Oct 2025
Sprint-4	20	6 Days	23 Oct 2025	28 Oct 2025	20	28 Oct 2025

#### Velocity:

**Average Velocity** = (Total Story Points Completed) / (Total Duration in Days)

Total: 79 points over 24 days → Velocity = 3.3 points / day

### **Burndown Chart:**

A Burndown Chart is a visual representation that shows the progress of work remaining versus time in a sprint or project. It helps the team track whether they are on schedule to complete all planned tasks. The chart typically displays:

- X-axis: Time (days or sprints)
- Y-axis: Remaining work (story points or tasks)

It provides a clear view of how quickly the team is “burning down” the work and helps identify delays, productivity trends, or potential risks early in the project.

### **References:**

<https://www.agilealliance.org/agile101/>

<https://www.atlassian.com/agile/project-management/metrics>

<https://www.atlassian.com/agile/scrum/sprint-planning>