

## Project Planning Phase

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

Date	1 November 2025
Team ID	NM2025TMID04221
Project Name	Medical Inventory Management
Maximum Marks	2

### Product Backlog, Sprint Schedule, and Estimation (1 Mark)

Use the below template to create product backlog and sprint schedule

Sprint	Functional Requirement	User Story Number	User Story /Tasks	Story Points	Priority	Team Members
Sprint-1	Inventory Setup	USN-1	As an admin, I can add new medicines with name, stock, and expiry date.	3	High	Raveena
Sprint-1	Stock Update	USN-2	As staff, I can update stock when medicines are issued to patients.	2	High	Sangeetha
Sprint-2	Low Stock Alerts	USN-3	As a system, I should send a low-stock alert when medicine quantity is below threshold.	4	High	Sharmila
Sprint-2	Expiry Alerts	USN-4	As a system, I should notify the admin about expired or near-expiry medicines.	3	High	Shriluokas ni
Sprint-3	Dashboard Report	USN-5	As an admin, I can view inventory summary report (Available stock, expired stock, alerts).	3	Medium	Raveena
Sprint-3	Testing	USN-6	As a tester, I should verify that alerts and reports work correctly.	3	Medium	Sangeetha
Sprint-4	Documentation	USN-7	As a developer, I want to document the architecture & planning for submission.	2	Medium	Sangeetha

## Project Tracker, Velocity & Burndown Chart: (1 Mark)

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	10	3 Days	22 October 2025	24 October 2025	10	24 October 2025
Speint-2	10	3 Days	25 October 2025	27 October 2025	10	27 October 2025
Sprint-3	10	3 Days	28 October 2025	30 October 2025	9	30 October 2025
Sprint-4	10	3 Days	31 October 2025	2 November 2025	10	2 November 2025

### Velocity Calculation

Average velocity = (Total Story Points Completed) ÷ (Total Duration in Days)

**Total = 39 points over 12 days**

**Velocity = 3.25 points/day**

### Burndown Chart Description

A burndown chart tracks remaining story points across days in each sprint.

As tasks are completed, the story points steadily fall to zero by the end of the sprint, proving timely completion and project control.

### References:

- <https://www.visual-paradigm.com/scrum/scrum-burndown-chart/>
- <https://www.atlassian.com/agile/tutorials/burndown-charts>
- <https://www.atlassian.com/agile/project-management>