

## PROJECT PLANNING PHASE

DATE	1 NOVEMBER 2025
TEAM ID	NM2025TMID02682
PROJECT NAME	MEDICAL INVENTORY MANAGEMENT
MAXIMUM MARKS	5 MARKS

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

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Inventory Setup	USN-1	As an admin, I can add new medicines with details like name, category, batch, and expiry date.	3	High	KANISHKA S
Sprint-1	Stock Monitoring	USN-2	As a pharmacist, I can view current stock levels and identify low-stock items.	2	High	GANAPRIYA A S
Sprint-2	Expiry Alerts	USN-3	As an inventory manager, I want the system to send alerts for medicines nearing expiry.	3	High	SORNALAKSHMI S

Sprint-2	Reorder Management	USN-4	As an admin, I want the system to auto-generate reorder requests when stock falls below threshold.	4	High	NANTHANA J
Sprint-3	Usage Tracking	USN-5	As a pharmacist, I can record medicine usage to update the stock automatically.	3	Medium	KANISHKA S
Sprint-3	Reporting& Analytics	USN-6	As a hospital admin, I can generate reports on medicine usage, waste stage and reorders	3	Medium	SORNALAKSHMI S
Sprint-4	Documentation	USN-7	As a developer, I want to Document architecture, system flow, and testing reports	3	Medium	NANTHANA J

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

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed	Sprint Release Date (Actual)
Sprint-1	20	6 Days	1 Nov 2025	6 Nov 2025	20	6 Nov 2025
Sprint-2	20	6 Days	7 Nov 2025	13 Nov 2025	19	13 Nov 2025
Sprint-3	20	6 Days	14 Nov 2025	20 Nov 2025	18	20 Nov 2025
Sprint-4	20	6 Days	21 Nov 2025	27 Nov 2025	20	27 Nov 2025

### Velocity

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

Total: 77 points over 24 days → Velocity = 3.2 points/day

### Burndown Chart

A burndown chart visualizes remaining work versus time for each sprint. It helps the team monitor progress and predict completion. The chart should show a consistent downward trend across sprints, indicating steady progress toward project goals.

### References

<https://www.atlassian.com/agile/tutorials/sprints>

<https://www.visual-paradigm.com/scrum/scrum-burndown-chart/>

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