Project Planning Phase

Project Planning Template (Product Backlog, Sprint Planning, Stories, Story Points)

Date: 03/11/2025
Team ID: NM2025TMID05036
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 Module Setup	USN-1	As an admin, I can add new medicines with name, batch, expiry date, and stock quantity.	3	High	M. Karthik
Sprint-1	Supplier Management	USN-2	As an admin, I can add supplier details and link them to purchased medicines.	2	High	B. Siva
Sprint-2	Stock Monitoring	USN-3	As a user, I can view total stock and receive alerts for low stock or expiry.	4	High	V. Dinesh
Sprint-2	Alert System	USN-4	As a pharmacist, I receive automatic notifications for near-expiry medicines.	3	High	M. Karthik
Sprint-3	Report Generation	USN-5	As an admin, I can generate monthly stock and expiry reports for management.	3	Medium	B. Siva
Sprint-3	Testing & Validation	USN-6	As a tester, I can verify all modules and ensure the system works without errors.	2	Medium	V. Dinesh
Sprint-4	Deployment & Documentation	USN-7	As a developer, I will prepare final documentation and deploy the application.	3	Medium	M. Karthik

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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	25 Oct 2025	30 Oct 2025	20	30 Oct 2025
Sprint-2	20	6 Days	31 Oct 2025	05 Nov 2025	19	05 Nov 2025
Sprint-3	20	6 Days	06 Nov 2025	11 Nov 2025	20	11 Nov 2025
Sprint-4	20	6 Days	12 Nov 2025	17 Nov 2025	20	17 Nov 2025

Velocity

Average Velocity = (Total Story Points Completed) / (Total Duration in Days)
= (79 points / 24 days) → Velocity = 3.29 points/day

Burndown Chart:

A burndown chart shows remaining work versus time across sprints. It helps the team monitor progress and ensure timely delivery.
For the Medical Inventory Management system, the chart showed consistent progress across sprints, indicating efficient teamwork and on-time task completion.

References:

- https://www.visual-paradigm.com/scrum/what-is-agile-software-development/

- https://www.atlassian.com/agile/tutorials/burndown-charts

- https://www.atlassian.com/agile/project-management/estimation

- https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software