Project Planning Phase

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

Date	1 NOVEMBER 2025
Team ID	NM2025TMID04224
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	Inventory Management	USN-1	As a store admin, I can add new medical items (tablets, syrups, equipment) to the inventory.	3	High	Member 1
Sprint-1	Inventory Management	USN-2	As a store admin, I can update stock quantity when new stock arrives.	2	High	Member 2
Sprint-1	User Login	USN-3	As a user/admin, I can log in securely using username & password.	2	High	Member 3
Sprint-2	Stock Monitoring	USN-4	As a pharmacist, I can view low-stock alerts when items reach minimum quantity.	4	High	Member 1
Sprint-2	Expiry Management	USN-5	As a pharmacist, I can get alerts	3	Medium	Member 2

			for medicines expiring soon.			
Sprint-2	Search & Filter	USN-6	As a user, I can search medicines using name, category, or expiry date.	3	Medium	Member 3
Sprint-3	Reporting	USN-7	As an admin, I can generate reports for stock, expiry, and daily usage.	4	Medium	Member 1
Sprint-3	Billing & Issue Tracking	USN-8	As a staff member, I can issue medicines to patients and update stock automatically.	3	Medium	Member 2
Sprint-3	Testing	USN-9	Validate that inventory updates, alerts, and reports work correctly.	2	Medium	Member 3
Sprint-4	Deployment & Documentation	USN-10	Prepare project documentation & deploy application for final submission. 3	3	Medium	Member 1

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	31 May 2025	05 June 2025	20	05 June 2025
Sprint-2	20	6 Days	05 June 2025	11 June 2025	20	11 June 2025

| Sprint-3 | 20 | 6 Days | 12 June 2025 | 18 June 2025 | 19 | 18 June 2025 |
| Sprint-4 | 20 | 6 Days | 19 June 2025 | 25 June 2025 | 20 | 25 June 2025 |

Velocity

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

Total: **79 points over 24 days → Velocity = 3.29 points/day**

Burndown Chart (Description):

A burndown chart shows remaining work vs time for each sprint.
It helps track progress and ensures project completion within timeline.
Your burndown chart should show:

- **X-axis → Days**

- **Y-axis → Remaining Story Points**

- **Ideal line vs Actual completion line**

References:

https://www.visual-paradigm.com/scrum/what-is-agile-software-development/
https://www.visual-paradigm.com/scrum/scrum-in-3-minutes/
https://www.visual-paradigm.com/scrum/scrum-burndown-chart/
https://www.visual-paradigm.com/scrum/scrum-process/
https://www.visual-paradigm.com/tutorials/agile-development-guide/

https://www.atlassian.com/agile/project-management
https://www.atlassian.com/agile/tutorials/sprints
https://www.atlassian.com/agile/tutorials/epics
https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software
https://www.atlassian.com/agile/tutorials/burndown-charts
https://www.atlassian.com/agile/project-management/estimation

https://www.javatpoint.com/agile-model
https://www.geeksforgeeks.org/software-engineering-agile-model/

https://www.sciencedirect.com/topics/computer-science/inventory-management
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8344120/
https://www.researchgate.net/publication/343915702_Medical_Inventory_Management_System