Project Planning Phase

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

Date	27 June 2025
Team ID	LTVIP2025TMID28986
Project Name	Medical Inventory Management
Maximum Marks	5 Marks

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

Product Backlog – Medical Inventory Management

User Story	Priority	Effort (Story Points)	Justification
As an inventory manager, I want real-time stock visibility, so I can avoid shortages or overstocking.	High	8	Critical to reduce manual oversight and errors.
As a user, I want automated expiration alerts for medicines and vaccines, so I can prevent waste.	High	5	Aligns with pain of missed expirations.
As a staff member, I want to generate and export inventory reports, so I car share them during audits.	¹ Medium	n 5	Supports efficient audits mentioned in "Say & Do."
As a procurement officer, I want stock threshold notifications, so I can restock before critical lows.	High	3	Helps with proactive restocking.
As a manager, I want to view usage trends of items over time, so I can plan procurement intelligently.	Medium	n 8	Addresses "Limited visibility into usage trends."

User Story	Priority	Effort (Story Points)	Justification
As a pharmacy team member, I want to collaborate via system messages or flags, so we can coordinate easily.	r Low	5	Reduces reliance on "constant emails."
As an admin, I want to manage multi-department access, so the right teams can see relevant inventory.	Mediun	n 3	Enables streamlined departmental coordination.
As a user, I want to scan barcodes or QR codes for quick inventory updates, so I don't rely on manual entry.	High	8	Helps eliminate spreadsheet-based updates.

Sprint Schedule (2-week sprints)

Sprint 1 – Foundation Setup

- Setup data model for inventory items.
- Configure user profiles and roles.
- Build real-time inventory dashboard (initial version).
- Define expiration alert logic.

Sprint 2 – Stock Monitoring & Notifications

- Implement low-stock threshold alerts.
- Add automated expiration notifications.
- Begin report generation module.
- Initial testing with dummy data.

Sprint 3 – Reporting & Collaboration

• Complete exportable reporting feature.

- Add trend analysis charts and logic.
- Enable system collaboration features (flags, comments).
- Internal feedback loop.

Sprint 4 – Usability Enhancements

- Implement barcode/QR scan for item updates.
- Refine UI for dashboards and alerts.
- · Configure department-specific access rules.
- UAT with medical staff and pharmacy team.

To bring your Medical Inventory Management project to life in a structured, Agile-savvy way, here's how we can break it down:

Project Tracker (Simplified Kanban Snapshot)

Backlog In Progress Testing Done

Real-time inventory dashboard Expiration alert notifications Inventory report export module User roles and access control

Trend analysis feature Barcode/QR inventory update Department collaboration flags Low-stock threshold notification logic

Audit-ready reporting

☑ Velocity Chart (Sample for First 4 Sprints)				
Sprint	Story Points Committed Story Points Completed Velocity			

Sprint 1 21	20	20
Sprint 2 25	23	23
Sprint 3 26	24	24
Sprint 4 24	24	24

Velocity helps estimate future sprint capacities and planning releases more predictably.

⊠ Burndown Chart – Sprint 2 (Example)

Day Total Work Remaining (SP)

Day 1 25

Day 3 18

Day 5 12

Day 7 7

Day 10 0

A burndown trend like this indicates that the team is progressing steadily toward the sprint goal.

Burndown Chart:

A burn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.

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

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

Reference:

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

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

https://www.atlassian.com/agile/tutorials/epics

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

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

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