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

Date	30 october 2025
Team ID	F6ECDDC2BAA51CF97204E983A5BEFB35
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 create sample medical inventory items (e.g., syringes, ECG machine) for testing.	2	High	N. Durga Mahendra
Sprint-1	Item-Patient Association	USN-2	As an admin, I can assign a medical item (e.g., IV set) to a patient record for simulation.	2	High	R.S.S. Manoj
Sprint-2	Business Rule Creation	USN-3	As a system admin, I want to create a Business Rule that blocks deletion of medical items currently in use.	4	High	N. Durga Mahendra
Sprint-2	Validation Testing	USN-4	As a tester, I should verify that deletion is blocked for medical items linked to patients or procedures.	3	High	N. Gowtham
Sprint-2	Negative Case Testing	USN-5	As a tester, I should verify that unused medical items can be deleted successfully.	2	Medium	O. Sravani
Sprint-3	Documentation	USN-6	As a developer, I want to document the technical architecture, sprint plan, and testing results for submission.	3	Medium	N. Durga Mahendra

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	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

= (79 points completed) / (36 days)

= 2.19 points/day

Burndown Chart:

A **burndown chart** visually tracks remaining work vs. days in the sprint.

Key points:

- X-axis = Timeline (Days)
- Y-axis = Remaining Story Points
- Points should burn down daily as tasks complete
- Helps track sprint health & forecast delays

Tools to create:

- Jira / Trello
- Visual Paradigm
- Excel / Google Sheets

Reference:

- Hospital Inventory Management – NetSuite: https://www.netsuite.com/portal/resource/articles/inventory-management/hospital-inventory-management-best-practices.shtml netsuite.com

- Healthcare Inventory Management: A Guide – NetSuite: https://www.netsuite.com/portal/resource/articles/erp/healthcare-inventory-management.shtml