Product Backlog, Sprint Planning, Stories, Story Points

Date: 2 November 2025
Team ID: 6D24F58C3BFCDC0B2754A4CE3927F280
Project Name: Medical Inventory Management System (Salesforce)
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	Supplier Management	USN-1	As an Admin, I can add and update supplier details including contact information and performance score.	3	High	M. Karthik, R. Sanjay
Sprint -1	Product Catalog Setup	USN-2	As a Pharmacist, I can register new medical products with SKU, batch number, and expiry date.	3	High	M. Karthik
Sprint -2	Purchase Order Management	USN-3	As a Procurement Officer, I can create and approve purchase orders linked to suppliers and products.	4	High	S. Praveen
Sprint -2	Inventory & Stock Tracking	USN-4	As a Storekeeper, I can view real-time stock levels and record stock adjustments.	3	High	A. Rahul
Sprint -3	Expiry Monitoring & Alerts	USN-5	As a Pharmacist, I can receive automatic alerts for products nearing expiry within 30 days.	4	High	M. Karthik

Sprint							
Sprint -3	Dashboard & Reporting	USN-6	As an Admin, I can view supplier performance, stock movement, and expiry reports on dashboards.	3	Medium	R. Sanjay
Sprint -4	Automation & Validation Rules	USN-7	As a Developer, I can implement Salesforce Flows and validation rules to ensure data accuracy.	3	High	S. Praveen
Sprint -4	Documentation & Final Testing	USN-8	As a Team Lead, I can compile architecture diagrams, test reports, and finalize documentation for submission.	2	Medium	A. Rahul, M. Karthik

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	05 Nov 2025	10 Nov 2025	20	10 Nov 2025
Sprint -2	20	6 Days	11 Nov 2025	16 Nov 2025	19	16 Nov 2025
Sprint -3	20	6 Days	17 Nov 2025	22 Nov 2025	20	22 Nov 2025
Sprint -4	20	6 Days	23 Nov 2025	28 Nov 2025	20	28 Nov 2025

Average Velocity Calculation:
Average Velocity = (Total Story Points Completed) ÷ (Total Duration in Days)
= (79 Story Points ÷ 24 Days)
→ **Velocity = 3.29 points/day**

Burndown Chart Overview

A burndown chart is used to visualize the remaining work (in story points) over time for each sprint.
In this project, the chart tracks development progress of each module — supplier, product, purchase order, inventory, expiry, and dashboard — ensuring that backlog reduction aligns with sprint goals.
When plotted, the line steadily declines from 80 to 0 story points across the four sprints, showing consistent completion and stable team velocity.

Agile Execution Notes

- **Sprint-1:** Base setup of suppliers and product objects.

- **Sprint-2:** Integration of purchase order and stock tracking logic.

- **Sprint-3:** Automated expiry alerts and dashboard generation.

- **Sprint-4:** Flow automation, validation, and documentation finalization.

Each sprint concludes with a **review and retrospective meeting** to refine upcoming user stories, identify blockers, and optimize workload balance.

Reference Links

For Agile Planning, Product Backlog, and Sprint Estimation:

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

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

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

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

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

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

7. https://www.scrum.org/resources/what-is-scrum