# Project Planning Phase

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

| Field | Details |
|---|---|
| Date | 04 November 2025 |
| Team ID | NM2025TMID05827 |
| Project Name | Medical Inventory Management System |
| Maximum Marks | 5 Marks |

## Product Backlog, Sprint Schedule, and Estimation

| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points | Priority | Team Members |
|---|---|---|---|---|---|---|
| Sprint-1 | Account Setup | MIS-1 | As an admin, I can create a Salesforce developer account at developer.salesforce.com. | 2 | High | Prakash N |
| Sprint-1 | Object Creation | MIS-2 | As a developer, I can create Product object with fields (Name, Description, Stock Levels, Unit Price, Expiry Date). | 3 | High | Aruna DEVI S |
| Sprint-1 | Object Creation | MIS-3 | As a developer, I can create Purchase Order object with Supplier lookup relationship. | 3 | High | Aruna DEVI S |
| Sprint-2 | Object Creation | MIS-4 | As a developer, I can create Supplier object | 2 | High | HARI Prasath S |

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|--------|-------------------------------|-------------------|-------------------|--------------|----------|--------------|
| | | | with contact fields (Name, Phone, Email, Address). | | | |
| Sprint-2 | Object Creation | MIS-5 | As a developer, I can create Inventory Transaction object with Product and User lookups. | 3 | High | HARI Prasath S |
| Sprint-2 | Tab Configuration | MIS-6 | As a user, I can access custom tabs for Product, Purchase Order, Supplier, and Inventory Transaction objects. | 2 | High | Prakash N |
| Sprint-3 | Lightning App | MIS-7 | As a user, I want a Medical Inventory Management Lightning App that groups all tabs together. | 3 | High | Gohul RAJ G |
| Sprint-3 | Field Creation | MIS-8 | As a developer, I can create text, number, and currency fields in Product object. | 2 | High | Aruna DEVI S |
| Sprint-3 | Field Creation | MIS-9 | As a developer, I can create lookup, date, and picklist fields in Purchase Order object. | 3 | High | Aruna DEVI S |
| Sprint-4 | Field Creation | MIS-10 | As a developer, I can create roll-up summary field to calculate Purchase Order total amount. | 3 | High | Aruna DEVI S |

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| Sprint-4 | Field Creation | MIS-11 | As a developer, I can create formula fields for automatic calculations in Purchase Order. | 2 | Medium | Aruna DEVI S |
| Sprint-4 | Field Creation | MIS-12 | As a developer, I can create phone and email fields in Supplier object. | 2 | Medium | HARI Prasath S |
| Sprint-5 | Page Layouts | MIS-13 | As an admin, I can customize page layout for Product object with organized field sections. | 2 | Medium | Prakash N |
| Sprint-5 | Page Layouts | MIS-14 | As an admin, I can customize page layouts for Purchase Order, Supplier, and Inventory Transaction objects. | 3 | Medium | Prakash N |
| Sprint-5 | Compact Layouts | MIS-15 | As a user, I want to see key Product fields (Name, Stock, Expiry) in compact view. | 2 | Medium | Prakash N |
| Sprint-6 | Compact Layouts | MIS-16 | As a user, I want to see key Purchase Order fields (Supplier, Date, Status) in compact view. | 2 | Medium | Prakash N |
| Sprint-6 | Validation Rules | MIS-17 | As a system admin, I want to ensure Expected Delivery Date is after Order Date through validation rule. | 3 | High | Gohul RAJ G |
| Sprint-6 | Profile Creation | MIS-18 | As an admin, I can create Inventory Manager | 3 | High | Prakash N |

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| | | | profile with CRUD permissions on Product and Inventory Transaction. | | | |
| Sprint-7 | Profile Creation | MIS-19 | As an admin, I can create Purchase Manager profile with CRUD permissions on Purchase Order and Supplier. | 3 | High | Prakash N |
| Sprint-7 | Role Hierarchy | MIS-20 | As an admin, I can create Purchasing Manager role hierarchy for record-level access. | 2 | High | Prakash N |
| Sprint-7 | User Management | MIS-21 | As an admin, I can create users and assign Inventory Manager and Purchase Manager profiles. | 2 | Medium | Prakash N |
| Sprint-8 | Permission Sets | MIS-22 | As an admin, I can create permission sets for specialized inventory access beyond base profiles. | 2 | Medium | Prakash N |
| Sprint-8 | Flow Creation | MIS-23 | As a pharmacist, I want automated email alerts sent 30 days before product expiry. | 4 | High | Gohul RAJ G |
| Sprint-8 | Flow Creation | MIS-24 | As a pharmacist, I want automated email alerts sent 15 and 7 days before product expiry. | 3 | High | Gohul RAJ G |

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|---|---|---|---|---|---|---|
| Sprint-9 | Flow Creation | MIS-25 | As an inventory manager, I want alerts when product stock falls below minimum level. | 4 | High | Gohul RAJ G |
| Sprint-9 | Flow Creation | MIS-26 | As a system, I want to auto-update Actual Delivery Date when Purchase Order status changes to "Delivered". | 3 | High | Gohul RAJ G |
| Sprint-9 | Trigger Development | MIS-27 | As a system, I want automatic calculation of Purchase Order total when Order Items are added or modified. | 5 | High | HARI Prasath S |
| Sprint-10 | Report Creation | MIS-28 | As a purchase manager, I want a summary report showing Purchase Orders grouped by Supplier. | 3 | Medium | HARI Prasath S |
| Sprint-10 | Report Creation | MIS-29 | As an auditor, I want a detailed report showing complete purchase order line items. | 3 | Medium | HARI Prasath S |
| Sprint-10 | Dashboard Creation | MIS-30 | As a manager, I want a dashboard showing supplier performance metrics (on-time delivery %, spending). | 4 | Medium | HARI Prasath S |
| Sprint-11 | Dashboard Creation | MIS-31 | As a manager, I want a dashboard showing inventory status (stock levels, expiry alerts, low stock warnings). | 4 | Medium | HARI Prasath S |

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| **Sprint-11** | Testing | MIS-32 | As a tester, I should verify expiry alert flow triggers at correct intervals (30, 15, 7 days). | 3 | High | Gohul RAJ G |
| **Sprint-11** | Testing | MIS-33 | As a tester, I should verify minimum stock alert flow triggers when stock falls below threshold. | 3 | High | Gohul RAJ G |
| **Sprint-12** | Testing | MIS-34 | As a tester, I should verify Purchase Order total calculates correctly when items added/updated/deleted. | 3 | High | Gohul RAJ G |
| **Sprint-12** | Testing | MIS-35 | As a tester, I should verify validation rule prevents invalid delivery dates. | 2 | High | Aruna DEVI S |
| **Sprint-12** | Documentation | MIS-36 | As a developer, I want to document the solution architecture and design phases for submission. | 3 | Medium | Aruna DEVI S |

## Project Tracker, Velocity & Burndown Chart:

| 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 | 8 | 1 Day | 25 Oct 2025 | 25 Oct 2025 | 8 | 25 Oct 2025 |
| Sprint-2 | 7 | 1 Day | 26 Oct 2025 | 26 Oct 2025 | 7 | 26 Oct 2025 |
| Sprint-3 | 8 | 1 Day | 27 Oct 2025 | 27 Oct 2025 | 8 | 27 Oct 2025 |
| Sprint-4 | 7 | 1 Day | 28 Oct 2025 | 28 Oct 2025 | 7 | 28 Oct 2025 |
| Sprint-5 | 7 | 1 Day | 29 Oct 2025 | 29 Oct 2025 | 7 | 29 Oct 2025 |
| Sprint-6 | 8 | 1 Day | 30 Oct 2025 | 30 Oct 2025 | 8 | 30 Oct 2025 |
| Sprint-7 | 7 | 1 Day | 31 Oct 2025 | 31 Oct 2025 | 7 | 31 Oct 2025 |
| Sprint-8 | 9 | 1 Day | 01 Nov 2025 | 01 Nov 2025 | 9 | 01 Nov 2025 |
| Sprint-9 | 12 | 1 Day | 02 Nov 2025 | 02 Nov 2025 | 12 | 02 Nov 2025 |
| Sprint-10 | 10 | 1 Day | 03 Nov 2025 | 03 Nov 2025 | 10 | 03 Nov 2025 |
| Sprint-11 | 10 | 1 Day | 04 Nov 2025 | 04 Nov 2025 | 10 | 04 Nov 2025 |
| Sprint-12 | 8 | 1 Day | 04 Nov 2025 | 04 Nov 2025 | 8 | 04 Nov 2025 |

# Velocity

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

**Total: 101 points over 40 days → Velocity = 2.53 points/day**

# 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.