|  |  |
| --- | --- |
| **Date** | 19-06-2025 |
| **Team ID** | LTVIP2025TMID28927 |
| **Project Name** | Medical Inventory Management |
| **Maximum Marks** |  |

**PROJECT PLANNING PHASE**

**Agile Overview: Key Concepts**

|  |  |
| --- | --- |
| Term | Description |
| Sprint | A 5-day time-boxed iteration to deliver prioritized features. |
| Epic | A large function (e.g., Procurement Flow) that spans multiple sprints. |
| User Story | A user-centric feature that adds value; breakdown of an Epic. |
| Story Points | Complexity estimation using Fibonacci (1, 2, 3, 5...)—reflects effort, not time. |

Sprint Planning Table – 5 Days Per Sprint

Sprint 1 – Inventory Setup & Data Load

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Day | Task | Story Points | Type | Notes |
| 1 | Collect medical product & supplier data | 2 | Data Sourcing | From spreadsheets and vendor files |
| 2 | Load data into Product and Supplier objects | 1 | Configuration | Data Import Wizard |
| 3 | Set up custom fields and relationships | 3 | Object Modeling | Lookup fields between objects |
| 4 | Configure picklists (Category, Unit Type) | 2 | Setup | Required for inventory classification |
| 5 | Sprint Review + Bug Fixes | - | QA | Review configuration and fix errors |
|  | Total Story Points (Sprint 1) | 8 Points |  |  |

Sprint 2 – Procurement Automation & Flow Design

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Day** | **Task** | **Story Points** | **Type** | **Notes** |
| 1 | Create custom objects (Purchase Order, Order Item) | 5 | Object Creation | With relationships to Product and Supplier |
| 2 | Design Lightning Record Pages | 3 | UI/UX | Tabs, components, and layouts |
| 3 | Build Flow to auto-update stock on delivery | 3 | Automation | Stock level increase on Quantity\_Received |
| 4 | Create Flow to notify supplier upon PO submission | 5 | Flow | Email confirmation using Email Templates |
| 5 | Sprint Review & Test | - | QA | Validate triggers and flows |
|  | Total Story Points (Sprint 2) | 16 Points |  |  |

Velocity Calculation

|  |  |
| --- | --- |
| **Metric** | **Value** |
| Story Points in Sprint 1 | 8 Points |
| Story Points in Sprint 2 | 16 Points |
| Total Points | 24 Points |
| Number of Sprints | 2 |
| Velocity | 24 ÷ 2 = 12 Points/Sprint |

Sprint Status Summary

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sprint** | **Duration (Days)** | **Points Planned** | **Points Completed** | **Completion %** | **Remarks** |
| Sprint 1 | 5 | 8 | 8 | 100% | Data modeled and loaded |
| Sprint 2 | 5 | 16 | 16 | 100% | Automation for procurement completed |

Product Backlog, Sprint Schedule & Estimation

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sprint** | **Functional Requirement (Epic)** | **User Story No.** | **User Story / Task** | **Story Points** | **Priority** | **Team Member** |
| Sprint-1 | Product Setup | USM-1 | As an admin, I can create product and supplier records with proper fields. | 3 | High | Member 1 |
| Sprint-1 | Inventory Baseline | USM-2 | As a manager, I can upload medical product inventory from Excel. | 2 | High | Member 2 |
| Sprint-1 | Categorization | USM-3 | As a user, I can see item categories (e.g., surgical, diagnostic). | 1 | Medium | Member 3 |
| Sprint-1 | Supplier Relationships | USM-4 | As a user, I can link suppliers to products. | 2 | High | Member 4 |
| Sprint-2 | Purchase Order Management | USM-5 | As a user, I can create POs and view order details. | 4 | High | Member 1 |
| Sprint-2 | Delivery Logging | USM-6 | As a user, I can enter delivery date and received quantity. | 3 | High | Member 2 |
| Sprint-2 | Inventory Automation | USM-7 | As a system, I update stock automatically when delivery is logged. | 5 | High | Member 3 |
| Sprint-2 | Communication Flow | USM-8 | As a user, I receive confirmation when a PO is submitted. | 3 | Medium | Member 4 |

Project Tracker & Velocity

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sprint | Total Story Points | Duration | Start Date | End Date | Points Completed | Release Date |
| Sprint 1 | 8 | 5 Days | 20 Feb 2025 | 24 Feb 2025 | 8 | 24 Feb 2025 |
| Sprint 2 | 16 | 5 Days | 25 Feb 2025 | 29 Feb 2025 | 16 | 29 Feb 2025 |

Velocity = (8 + 16) / 2 = 12 Story Points per Sprint

Burndown Chart (Sprint 2 Example)

|  |  |  |
| --- | --- | --- |
| **Day** | **Remaining Story Points (Ideal)** | **Actual** |
| Day 0 | 16 | 16 |
| Day 1 | 13 | 14 |
| Day 2 | 10 | 10 |
| Day 3 | 7 | 7 |
| Day 4 | 3 | 3 |
| Day 5 | 0 | 0 |