**Project Planning Phase**

**Project Planning Template (Product Backlog, Sprint Planning, Stories, Story Points)**

* **Date:** 15 February 2025
* **Team ID:** LTVIP2025TMID28994
* **Project Name:** Medical Inventory Management System
* **Maximum Marks:** 5 Marks

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

Use the below template to create product backlog and sprint schedule

| **Sprint** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** |
| --- | --- | --- | --- | --- | --- | --- |
| Sprint-1 | Inventory Registration | USN-1 | As an admin, I can register medicines and stock data into the system using product details. | 2 | High | [Team Member 1] |
| Sprint-1 | System Notification | USN-2 | As a user, I will receive an email or alert when medicine stock is low or expired. | 1 | High | [Team Member 2] |
| Sprint-2 | Supplier Integration | USN-3 | As a staff member, I can register and view supplier details to assign vendors for purchases. | 2 | Low | [Team Member 3] |
| Sprint-1 | Stock Update | USN-4 | As a pharmacist, I can update received medicine delivery status including expiry and batch number. | 2 | Medium | [Team Member 1] |
| Sprint-1 | Login Authentication | USN-5 | As a user, I can log in securely with a username and password to access the inventory dashboard. | 1 | High | [Team Member 2] |

**Dashboard:**

A dashboard will be developed to visualize stock status, alerts for expiry, and low quantity medicines in real-time.

**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 | 24 Oct 2022 | 29 Oct 2022 | 20 | 29 Oct 2022 |
| Sprint-2 | 20 | 6 Days | 31 Oct 2022 | 05 Nov 2022 |  |  |
| Sprint-3 | 20 | 6 Days | 07 Nov 2022 | 12 Nov 2022 |  |  |
| Sprint-4 | 20 | 6 Days | 14 Nov 2022 | 19 Nov 2022 |  |  |

**Velocity Calculation:**

Assume Sprint-1 is completed successfully.

* **Velocity = Total Story Points Completed / Number of Sprints**
* = 20 / 1 = **20 story points per sprint**

If multiple sprints are completed:

* Example:  
  If Sprint-1 and Sprint-2 are completed, and each has 20 story points done:  
  Velocity = (20 + 20) / 2 = **40 / 2 = 20 story points per sprint**

**Burndown Chart**

A burndown chart will be created to show remaining story points across sprint days.

* X-axis: Sprint Days (1 to 6)
* Y-axis: Remaining Story Points
* Example: Sprint-1 starts at 20 story points → drops to 0 over 6 days

📌 **Use this tool to create chart:**  
<https://www.visual-paradigm.com/scrum/scrum-burndown-chart/>

**References**

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