**Agile Planning – Medical Inventory Management Project**

**✅ Sprint**

A **Sprint** is a fixed time period (e.g., 5 working days) during which the team works to complete a specific set of tasks related to **Medical Inventory Management**. Each sprint delivers a functional part of the system.

**✅ Epic**

An **Epic** is a large feature in the Medical Inventory Management system such as **"Inventory Tracking System"** or **"Purchase Order Module"**, which is too big to complete in one sprint. It is broken into smaller **User Stories**.

**✅ Story**

A **Story** is a smaller, actionable task within an Epic. For example:

* “As a user, I want to receive low-stock alerts”
* “As an admin, I want to approve vendor orders”

**✅ Story Point**

A **Story Point** is a unit used to estimate the effort needed to complete a story. The estimation is usually based on complexity, time, and resources (using a Fibonacci scale: 1, 2, 3, 5, 8, etc.).

| **Complexity Level** | **Story Point** |
| --- | --- |
| Very Easy task | 1 Point |
| Easy task | 2 Points |
| Moderate task | 3 Points |
| Difficult task | 5+ Points |

**📅 Sprint Plan for Medical Inventory Management**

**🔹 Sprint 1: (5 Days)**

**Goal:** Setup basic data input and preprocessing tasks

| **Feature Area** | **Task Description** | **Story Points** |
| --- | --- | --- |
| Data Collection | Collect medicine stock data | 2 |
|  | Load vendor & product data | 1 |
| Data Preprocessing | Handle missing stock entries | 3 |
|  | Handle category (e.g., tablets, syrups) | 2 |

**🔸 Total Story Points for Sprint 1 = 8**

**🔹 Sprint 2: (5 Days)**

**Goal:** Build and deploy initial working modules

| **Feature Area** | **Task Description** | **Story Points** |
| --- | --- | --- |
| Module Development | Build inventory tracking dashboard | 5 |
|  | Test alert system for low/expired stock | 3 |
| Deployment | Create HTML pages for input/display | 3 |
|  | Deploy system via Flask (or Django) | 5 |

**🔸 Total Story Points for Sprint 2 = 16**

**📈 Team Velocity**

**Formula:**  
Velocity = Total Story Points Completed ÷ Number of Sprints  
= (8 + 16) ÷ 2 = **24 / 2 = 12 Story Points per Sprint**

🔹 **Your team’s velocity is: 12 Story Points per Sprint**