**PROJECT LOGIC**

| **Date** | **26-05-2025** |
| --- | --- |
| **Team ID** | **LTVIP2025TMID59331** |
| **Project Name** | **ShopSmart:Your digital grocery store experience** |
| **Maximum Marks** | **5 Marks** |

**A Sprint** fixed period or duration in which a team works to complete a set of tasks

An **Epic** is a **big task or project** that is too large to complete in one sprint. It is broken down into **smaller tasks (stories)** that can be completed over multiple sprints.

A **Story** is a small task . It is part of an **Epic**.

A **Story Point** is a number that represents how much effort a story takes to complete. (usually in form of Fibonacci series)

1. Very Easy task
2. Easy task
3. Moderate task
4. Difficult task

**Sprint 1: (5 Days)**

**Epic**: User Authentication and Frontend Setup

| **Task** | **Story Points** |
| --- | --- |
| Create project structure | 1 |
| Design login/signup HTML pages | 2 |
| Implement user signup API | 3 |
| Implement user login API | 3 |
| Store users in MongoDB | 2 |
| Connect frontend to backend auth |  |

**Sprint 2: (5 Days)**

**Epic**: Product Display & Cart Functionality

| **Task** | **Story Points** |
| --- | --- |
| Create product model & schema | 2 |
| Add product listing API | 3 |
| Display products in frontend | 2 |
| Create cart schema & model | 2 |
| Add to cart functionality (API) | 3 |
| Connect cart to UI | 3 |
| Display cart items & total | 2 |

**Sprint 3: (5 Days) – 📦 *Order, Payment, and Deployment***

**Epic**: Checkout & Deployment

| **Task** | **Story Points** |
| --- | --- |
| Create order schema | 2 |
| Add order confirmation API | 3 |
| Integrate payment gateway (dummy) | 5 |
| Connect checkout to frontend | 2 |
| Flask app deployment on server | 5 |

**Velocity Calculation**

| **Sprint** | **Story Points** |
| --- | --- |
| Sprint 1 | 13 |
| Sprint 2 | 17 |
| Sprint 3 | 17 |

**Total Story Points = 47**  
**Sprints = 3**  
**Velocity = 47 / 3 = ~15.7 (≈ 16 Story Points per Sprint)**