

# Planning Logic Document

## Project Name

Cafeteria Menu Display

## 1. Agile Planning Logic

### ➤ Agile Planning Overview

Term	Description
Sprint	A fixed duration during which a set of project tasks are completed.
Epic	A large functional module of the project.
User Story	A functional requirement broken down from an epic.
Story Point	A measure of effort required to complete a user story (1, 2, 3, 5).

### ➤ Story Point Scale

Story Points	Complexity
1	Very Easy
2	Easy
3	Moderate
5	Complex

## 2. Sprint Planning

### ▣ Sprint-1: Instance Setup & Data Model Creation

User Story No	User Story	Story Points
USN-1	Set up development environment with Flask and MySQL	2
USN-2	Create project folder structure and initialize Git repository	1
USN-3	Design and create Users table in database	2
USN-4	Design and create Categories table in database	2

USN-5	Design and create Menu Items table in database	3
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### Total Story Points (Sprint-1)

$$2 + 1 + 2 + 2 + 3 = 10$$

### ■ Sprint-2: Form Configuration & Number Maintenance

User Story No	User Story	Story Points
USN-6	Create Flask app with basic routes and configurations	2
USN-7	Implement admin login authentication with session management	3
USN-8	Build API endpoints to fetch menu items from database	2
USN-9	Build API endpoints to add new menu items	3
USN-10	Build API endpoints to edit and delete menu items	3
USN-11	Design admin panel HTML forms for menu management	2

### ✓ Total Story Points (Sprint-2)

$$2 + 3 + 2 + 3 + 3 + 2 = 15$$

### ■ Sprint-3: Client Scripts & Automation Logic

User Story No	User Story	Story Points
USN-12	Design customer display interface with HTML and CSS	3
USN-13	Implement JavaScript to fetch and render menu items	2
USN-14	Add category-based filtering functionality	2
USN-15	Implement auto-refresh every 5 minutes using JavaScript	2
USN-16	Add dietary icons (Veg, Non-Veg, Vegan, Gluten-Free)	3
USN-17	Implement "Today's Special" highlight feature	2
USN-18	Add "Out of Stock" grayed-out display logic	2

### ✓ Total Story Points (Sprint-3)

$$3 + 2 + 2 + 2 + 3 + 2 + 2 = 16$$

## ☑ TOTAL STORY POINTS

### Sprint Story Points

Sprint-1 10

Sprint-2 15

Sprint-3 16

### 📊 Overall Total Story Points

$$10 + 15 + 16 = 41$$

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## 🚀 VELOCITY CALCULATION

### Formula

**Velocity = Total Story Points ÷ Number of Sprints**

### Calculation

- Total Story Points = **41**
- Number of Sprints = **3**

### ☑ Velocity

**Velocity = 41 ÷ 3 = 13.67 Story Points per Sprint**

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## 🧠 Velocity Insight

The team's average velocity is **14 story points per sprint**, indicating a stable and consistent development pace across all sprints.

## Conclusion

The agile planning logic helped the team efficiently manage tasks, prioritize core features, and complete the Cafeteria Menu Display System within the given timeline while maintaining quality and functionality.