

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

$$10 + 15 + 16 = 41$$

VELOCITY CALCULATION

Formula

$$\text{Velocity} = \text{Total Story Points} \div \text{Number of Sprints}$$

Calculation

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

Velocity

$$\text{Velocity} = 41 \div 3 = 13.67 \text{ Story Points per Sprint}$$

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.