Project Planning Phase
Project Planning Document (Product Backlog, Sprint Planning, Stories, Story points)

Date	15 February 2026
Team ID	LTVIP2026TMIDS79115
Project Name	Cafeteria Menu Display
Maximum Marks	5 Marks

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

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Project Setup	USN-1	Set up development environment with Flask and MySQL	2	High	Member 1
Sprint-1	Project Setup	USN-2	Create project folder structure and initialize Git	1	High	Member 2
Sprint-1	Database Design	USN-3	Create Users table in MySQL database	2	High	Member 3
Sprint-1	Database Design	USN-4	Create Categories table in MySQL database	2	High	Member 4
Sprint-1	Database Design	USN-5	Create Menu Items table in MySQL database	3	High	Member 5
Sprint-2	Backend Development	USN-6	Create Flask app with basic routes and config	2	High	Member 1
Sprint-2	Authentication	USN-7	Implement admin login with session management	3	High	Member 2
Sprint-2	API Development	USN-8	Build API endpoints to fetch menu items	2	High	Member 3
Sprint-2	API Development	USN-9	Build API endpoints to add new menu items	3	High	Member 4
Sprint-2	API Development	USN-10	Build API endpoints to edit and delete items	3	Medium	Member 5

Sprint-2	Admin UI	USN-11	Design admin panel HTML forms	2	Medium	Member 1
Sprint-3	Frontend Display	USN-12	Design customer display interface with HTML/CSS	3	High	Member 2
Sprint-3	Frontend Logic	USN-13	Implement JavaScript to fetch and render menu	2	High	Member 3
Sprint-3	Frontend Logic	USN-14	Add category-based filtering functionality	2	Medium	Member 4
Sprint-3	Automation	USN-15	Implement auto-refresh every 5 minutes	2	Medium	Member 5
Sprint-3	UI Enhancement	USN-16	Add dietary icons (Veg, Vegan, Gluten-Free)	3	Low	Member 1
Sprint-3	UI Enhancement	USN-17	Implement "Today's Special" highlight feature	2	Low	Member 2
Sprint-3	UI Enhancement	USN-18	Add "Out of Stock" grayed-out display logic	2	Medium	Member 3

Project Tracker, Velocity & Burndown Chart: (4 Marks)

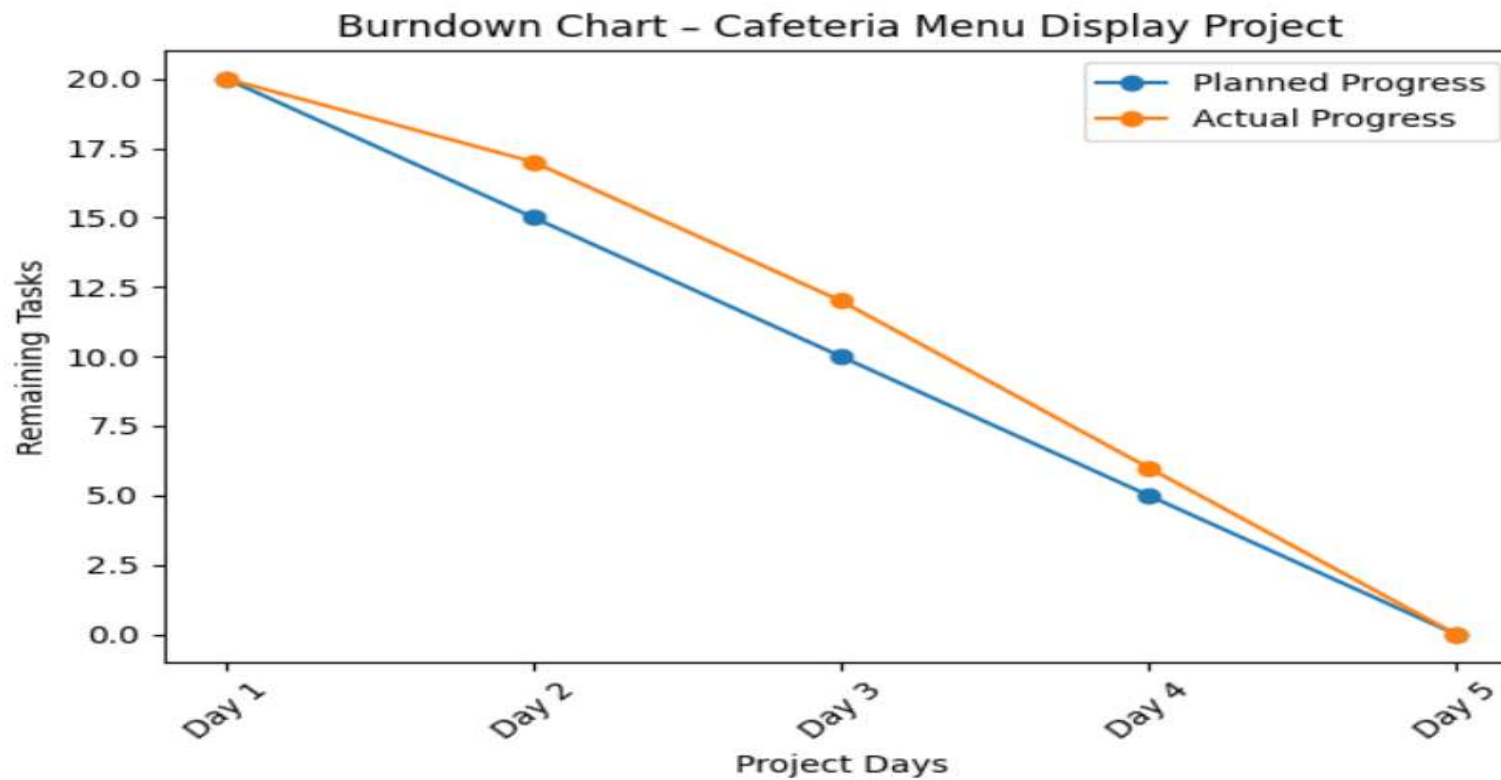| Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	10	5 Days	5 Feb 2026	9 Feb 2026	10	9 Feb 2026
Sprint-2	15	5 Days	10 Feb 2026	14 Feb 2026	15	14 Feb 2026
Sprint-3	16	5 Days	15 Feb 2026	19 Feb 2026	16	19 Feb 2026

Velocity Calculation

Total Story Points = 10 + 15 + 16 = 41

Number of Sprints = 3

Velocity = 41/ 3 = 13.67 Story Points per Sprint

Burndown Chart

Burndown Chart – Cafeteria Menu Display Project

The burndown chart represents the progress of Sprint-3 by showing the remaining story points over the sprint duration. The ideal line indicates expected progress, while the actual line shows real completion. All planned story points were completed by the end of the sprint, indicating successful sprint execution.