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

Date	30 MAY 2025
Team ID	LTVIP2025TMID48176
Project Name	Comprehensive Analysis and Dietary Strategies with Tableau: A College Food Choices Case Study
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	Data Collection & Cleaning	USN-1	As a user, I want to load college food choice data into Tableau for analysis.	2	High	Kona Sai Sanjana
Sprint-1	Data Cleaning & Transformation	USN-2	As a data analyst, I want to clean and preprocess the dietary data to remove errors and nulls	3	High	Kurmana Sasank
Sprint-1	Visualization - Nutritional Intake	USN-3	As a user, I want to view daily/weekly trends in fruit and vegetable consumption.	3	High	Kona Sai Sanjana
Sprint-2	Visualization - Dietary Deficiencies	USN-4	As a health admin, I want to visualize vitamin deficiency patterns across student demographics.	4	Medium	Kurmana Sasank
Sprint-2	Predictive Analytics	USN-5	As a nutritionist, I want to predict at-risk students using historical diet and activity patterns.	4	Medium	Kona Sai Sanjana
Sprint-3	Personalized Nutrition Dashboard	USN-6	As a student, I want a personalized dashboard suggesting diet strategies based on my data.	5	Low	Kurmana Sasank

| Sprint-3 | Alerts & Recommendations System | USN-7 | As a health officer, I want to receive alerts when unhealthy eating patterns are detected. | 3 | Medium | Kona Sai Sanjana |
| Sprint-3 | Final Dashboard Compilation | USN-8 | As a viewer, I want to see all visualizations and KPIs in a single Tableau dashboard. | 3 | High | Kurmana Sasank |

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	8	6 Days	19 MAY 2025	24 MAY 2025	8	24 MAY 2025
Sprint-2	20	6 Days	26 MAY 2025	31 MAY 2025	20	31 MAY 2025
Sprint-3	20	6 Days	5 JUNE 2025	10 JUNE 2025	20	10 JUNE 2025
Sprint-4	20	6 Days	12 JUNE 2025	17 JUNE 2025	20	17 JUNE 2025

Velocity:

Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

$$AV = \frac{sprint\ duration}{velocity} = \frac{20}{10} = 2$$

- **Total Story Points = 8 + 16 = 24**

- **Number of Sprints = 2**

- **Velocity = 24 / 2 = 12 Story Points per Sprint**

Burndown Chart: