Project Planning Phase

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

Date	15 February 2025
Team ID	LTVIP2025TMID48547
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)

Use the below template to create product backlog and sprint schedule

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Data Collection	USN-1	As a user, I want to collect dietary data of college students through surveys.	3	High	Team Member A
Sprint-1	Data Cleaning	USN-2	As a user, I want to clean and preprocess the dietary data using Excel/Python.	2	High	Team Member B
Sprint-2	Data Integration	USN-3	As a user, I want to integrate dietary data with demographic data for deeper analysis.	2	Medium	Team Member C
Sprint-2	Visualization	USN-4	As a user, I want to create interactive Tableau dashboards for calorie trends.	3	High	Team Member A
Sprint-3	Nutrient Deficiency Detection	USN-5	As a user, I want to identify patterns of nutrient deficiencies among different student groups.	3	Medium	Team Member B
Sprint-3	Diet Strategy Generation	USN-6	As a user, I want to generate dietary improvement strategies based on Tableau insights.	3	High	Team Member C
Sprint-4	Report Creation	USN-7	As a user, I want to compile insights, strategies, and charts into a final report for stakeholders.	2	Medium	Team Member A

Sprint-4	Presentation Preparation	USN-8	As a user, I want to prepare a final presentation summarizing key findings and strategies.	2	Low	Team Member B

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	7	2 Days	15 June 2025	16 June 2025	7	16 June 202
Sprint-2	6	2 Days	17 June 2025	18 June 2025	6	18 June 202
Sprint-3	5	2 Days	19 June 2025	20 June 2025	5	20 June 202
Sprint-4	4	2 Days	21 June 2025	22 June 2025	4	22 June 202
Sprint-4	3	2 Days	23 June 2025	24 June 2025	3	24 June 202
Sprint-4	5	2 Days	25 June 2025	26 June 2025	5	26 June 202
Sprint-4	2	2 Days	27 June 2025	28 June 2025v	2	28 June 202
Sprint-4	1	2 Days	29 June 2025	30 June 2025	1	30 June 202

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)

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

Burndown Chart:

A burn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.

https://www.visual-paradigm.com/scrum/scrum-burndown-chart/

https://www.atlassian.com/agile/tutorials/burndown-charts

Reference:

https://www.atlassian.com/agile/project-management

https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software

https://www.atlassian.com/agile/tutorials/epics

https://www.atlassian.com/agile/tutorials/sprints

https://www.atlassian.com/agile/project-management/estimation

https://www.atlassian.com/agile/tutorials/burndown-charts