Project Planning Phase

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

Date	18 February 2026
Team ID	LTVIP2026TMIDS52086
Project Name	Comprehensive Analysis and Dietary Strategies with Tableau: A College Food Choices Case Study
Maximum Marks	8 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 Acquisition & Prep	USN-1	As a developer, I can clean the CSV data to ensure correct date formats and product categories.	5	High	Bhavyasri
Sprint-2	Data Acquisition & Prep	USN-2	As a developer, I can import the dataset into Tableau and define data types.	3	High	Afiya
Sprint-2	Dashboard Development	USN-3	As a student, I can view my cumulative caloric intake via a Waterfall Chart.	5	High	Bhavyasri
Sprint-3	Dashboard Development	USN-4	As a student, I can see consumption trends over time using an Area Chart.	4	Medium	Divya
Sprint-3	Advanced Analytics	USN-5	As a user, I can filter data by City and Gender to see demographic dietary patterns.	2	Medium	Afiya
Sprint-4	Advanced Analytics	USN-6	As a researcher, I can use a Word Cloud to identify the most frequent food choices.	1	Low	Divya
Sprint-4	Deployment & Documentation	USN-7	As a user, I can access the dashboard on Tableau Public for remote viewing.	2	High	Bhavyasri

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	5	7 Days	15 Jan 2026	22 Jan 2026	5	22 Jan 2026
Sprint-2	8(3+5)	7 Days	23 Jan 2026	30 Jan 2026	8	30 Jan 2026
Sprint-3	6(4+2)	7 Days	31 Jan 2026	7 Feb 2026	6	7 Feb 2026
Sprint-4	3(1+2)	5Days	8 Feb 2026	13 Feb 2026	3	13 Feb 2026

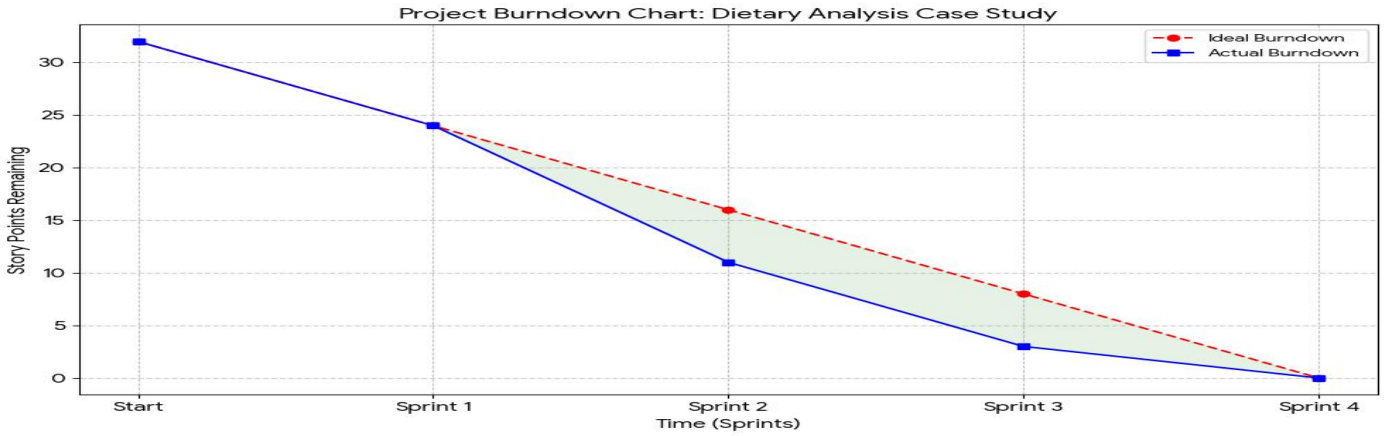
Velocity:

Velocity Calculation

- **Total Story Points Completed:** 22 Points
- **Total Project Duration:** 26 days
- **Formula:** Average Velocity (AV)} = {Total Story Points}/{Total Days}
- **Calculation:** 22/26=0.85 **Story Points per day.**

Burndown Chart:

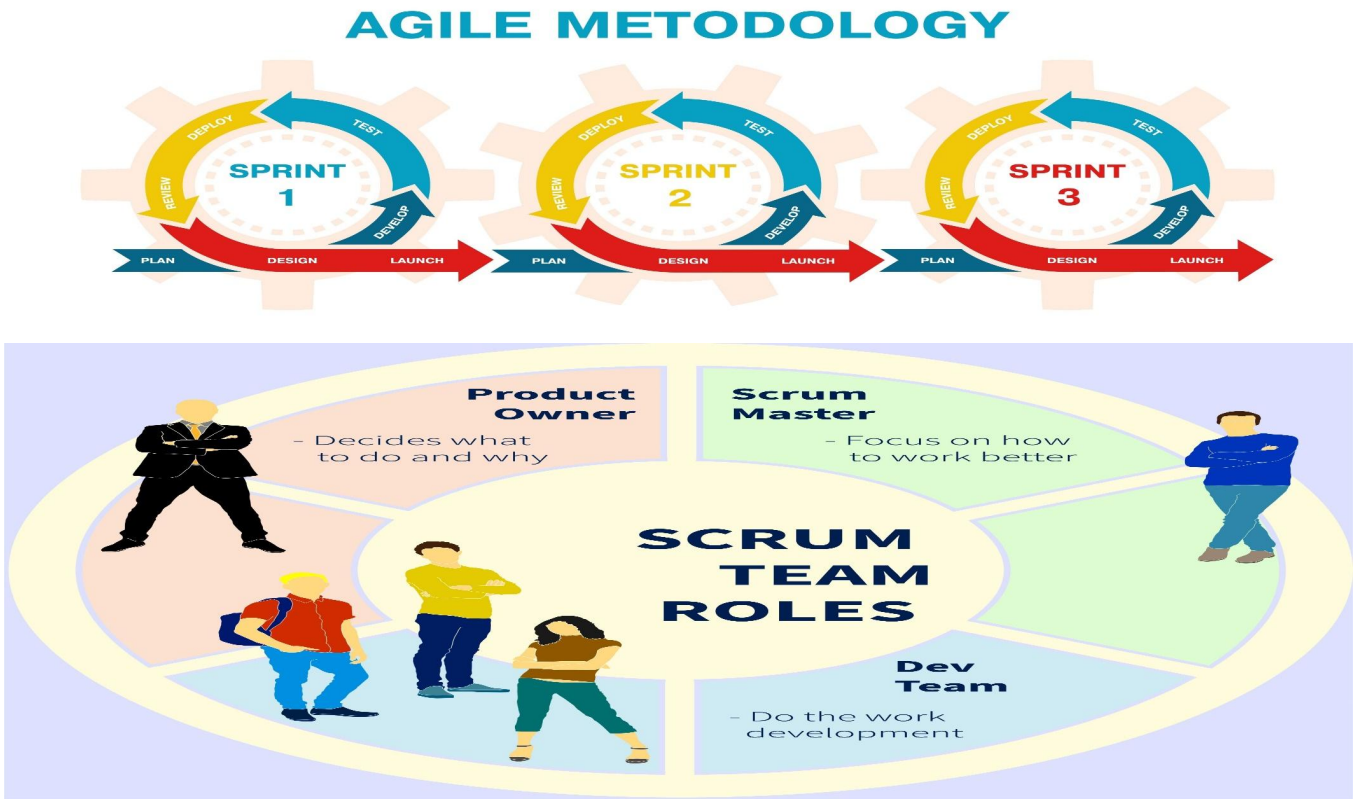
A burn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.



Burndown Chart Analysis:

The chart shows two lines:

1. **Ideal Burndown (Red Dashed Line):** This represents the theoretical linear progress if the team completed an equal amount of work every day.
2. **Actual Burndown (Blue Solid Line):** This shows your real progress. You can see a significant drop in **Sprint 2**, which indicates that your team was highly productive while developing the **Waterfall and Area Charts**.



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