Project Planning Phase

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

Date	20 February 2026
Team ID	LTVIP2026TMIDS66673
Project Name	Plugging into the Future: An Exploration of Electricity Consumption Patterns Using Tableau
Maximum Marks	8 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	USN-1	s a user, I can upload electricity consumption datasets (CSV/Excel) into the system.	2	High	Member-1
Sprint-1	Data Pre-processing	USN-2	As a user, I want the system to clean and preprocess raw electricity data automatically.	2	High	Member-2
Sprint-1	Data Storage	USN-3	As a user, I want the processed data to be stored securely for analysis.	1	Medium	Member-3
Sprint-2	Data Analysis	USN-4	As a user, I can analyze electricity consumption trends such as peak demand and seasonal patterns.	3	High	Member-1
Sprint-2	Visualization	USN-5	As a user, I can view interactive dashboards in Tableau for better insights.	3	High	Member-2
Sprint-2	Dashboard Filters	USN-6	As a user, I can filter data by region, time period, and consumption type.	2	Medium	Member-4
Sprint-3	Performance Optimization	USN-7	As a user, I want dashboards to load quickly even for large datasets.	2	Medium	Member-3
Sprint-3	Reporting	USN-8	As a user, I can export visualizations and reports for decision-making.	1	Low	Member-4

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	20	6 Days	29 Jan 2026	03 Feb 2026	20	03 Feb 2026
Sprint-2	20	6 Days	04 Feb 2026	09 Feb 2026	20	09 Feb 2026
Sprint-3	20	6 Days	10 Feb 2026	15 Feb 2026	20	15 Feb 2026
Sprint-4	20	6 Days	16 Feb 2026	21 Feb 2026	20	21 Feb 2026

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