

Project Planning Phase

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

Date	20 February 2026
Team ID	LTVIP2026TMIDS82725
Project Name	Plugging into the future: An exploration of electricity consumption pattern using tableau
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 collection	USN-1	As an analyst, I collect electricity consumption datasets from reliable sources	3	High	Team
Sprint-1	Data cleaning	USN-2	As an analyst, I clean and prepare raw electricity data for analysis	3	High	Team
Sprint-2	Data integration	USN-3	As an analyst, I merge datasets for consistent analysis	2	Medium	Team
Sprint-2	Data analysis	USN-4	As an analyst, I identify usage trends and peak consumption	4	High	Team
Sprint-3	Dashboard design	USN-5	As a user, I want interactive dashboards in Tableau	3	High	Team
Sprint-3	Visualization	USN-6	As a user, I visualize electricity patterns clearly	3	Medium	Team
Sprint-4	Reporting	USN-7	As a stakeholder, I receive insights and summary reports	2	Medium	Team
Sprint-4	Review & optimization	USN-8	As a team, we validate dashboards and improve performance	2	Low	Team

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

Sprint	Total story points	Duration	Sprint start data	Sprint end data	Story points completed	Sprint release data
Sprint -1	6	6 Days	15 Feb2026	20 Feb 2026	6	20 Feb 2026
Sprint -2	6	6 Days	21 Feb 2026	26 Feb 2026	6	26 Feb 2026
Sprint -3	6	6 Days	27 Feb 2026	4 Mar 2026	6	4 Mar 2026
Sprint -4	4	6 Days	05 Mar 2026	10 Mar 2026	4	10 Mar 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)

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

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>