

## 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         | UNS-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 date | Sprint end date | Story points completed | Sprint release data |
|-----------|--------------------|----------|-------------------|-----------------|------------------------|---------------------|
| Sprint -1 | 6                  | 6 Days   | 15 Feb 2026       | 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>