Project Planning Phase

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

Date	10 February 2026
Team ID	LTVIP2026TMIDS80901
Project Name	Plugging in to the future : An exploration of electricity consumption patterns
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 Setup	USN-1	As a user, I want to upload electricity dataset to begin analysis.	3	Medium	Durga Vaishnavi
Sprint-1	Data Cleaning	USN-2	As a user, I want to clean missing and inconsistent data values	5	High	Durga Vaishnavi
Sprint-1	Data Aggregation	USN-3	As a user, I want to aggregate data monthly and yearly for trend analysis	5	High	Durga vaishnavi
Sprint-2	Trend Analysis	USN-4	As a user, I want to visualize monthly electricity consumption trends.	5	High	Durga Vaishnavi
Sprint-2	Region Comparison	USN-5	As a user, I want to compare electricity usage across regions.	5	High	Durga vaishnavi
Sprint-2	Filters	USN-6	As a user, I want to apply filters for year and region selection.	3	Medium	Durga Vaishnavi
Sprint-3	Dashboard Design	USN-7	As a user, I want an interactive dashboard interface.	5	High	Durga Vaishnavi
Sprint-3	Insight Extraction	USN-8	As a user, I want highlighted peak and low consumption periods.	3	Medium	Durga Vaishnavi
Sprint-3	Documentation	USN-9	As a user, I want structured documentation for project submission.	3	Medium	Durga Vaishnavi

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	13	5 Days	01 Feb 2026	05 Feb 2026	13	05 Feb 2026
Sprint-2	13	5 Days	06 Feb 2026	10 Feb 2026	13	10 Feb 2026
Sprint-3	11	5 Days	11 Feb 2026	15 Feb 2026	11	15 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)

$$Avg\ Velocity = \frac{Total\ Story\ Points\ Completed}{Number\ of\ Sprints}$$

$$\frac{37}{3} = 12.3..$$ Story Points Per Sprint

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.

Example :

Burndown Chart (Sprint Progress Tracking):

This chart shows planned vs actual task completion for the sprint. The guideline represents ideal progress, while the actual burndown indicates completed tasks

over time, helping track project progress and workload.