Project Planning Phase

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

Date	22/06/25
Team ID	LTVIP2025TMID59134
Project Name	Plugging into the Future: An Exploration of Electricity Consumption Patterns Using Tableau
Maximum Marks	5 Marks

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Use the below template to create product backlog and sprint schedule

Sprint	Epic	User Story No.	User Story / Task	Points	Priority	Assigned To
Sprint-1	Registration	USN-1	As a user, I can register with my name and email	2	High	S.Aneeqa Thamreen
Sprint-1	Upload CSV	USN-2	As a user, I can upload electricity data in CSV format	3	High	A.Gowtham
Sprint-1	Data Cleaning	USN-3	As a developer, I can clean and preprocess uploaded data using Python	4	High	J.Takeshwar
Sprint-1	Database Storage	USN-4	As a developer, I can store cleaned data into MySQL	2	Low	K.Veena Madhuri
Sprint-2	Tableau Dashboard	USN-5	As a user, I can view dashboards generated using Tableau	5	High	Aneeqa Thamreen
Sprint-2	Web Integration	USN-6	As a user, I can access the dashboard via Flask UI	3	High	J.Takeshwar
Sprint-2	Add Filters	USN-7	As a user, I can filter the data by region, year, and quarter	2	Medium	Gowtham
Sprint-3	Data Story	USN-8	As a user, I can view a Tableau Story with key electricity usage insights	2	Low	K.Veena Madhuri
Sprint-3	Forecasting	USN-9	As a developer, I can forecast usage using Prophet	3	Low	Gowtham
Sprint-3	Documentation	USN-10	As a team, we can prepare final project documentation	2	Medium	J.Takeshwar
Sprint-4	Deployment	USN-11	As a developer, I can deploy the Flask app and publish the Tableau dashboard online	3	High	K.Veena Madhuri
Sprint-4	Demo Prep	USN-12	As a team, we can prepare a live demo walkthrough for stakeholders	2	Medium	Madhuri
Sprint-4	Bug Fixing	USN-13	As a developer, I can test and fix UI/visual bugs from user feedback	2	Medium	S.Aneeqa Thamreen

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

Sprint	Total Story Points	Duration	Start Date	End Date	Points Completed	Release Date
Sprint-1	11	4 Days	11 June 2025	14 June 2025	11	14 June 2025
Sprint-2	10	4 Days	15 June 2025	18 June 2025	10	18 June 2025
Sprint-3	7	4 Days	19 June 2025	22 June 2025	7	22 June 2025
Sprint-4	7	4 Days	23 June 2025	26 June 2025	7	26 June 2025

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)

$$\text{Velocity} = \frac{\text{Total Story Points}}{\text{Total Days}} = \frac{35}{16} \approx 2.19$$

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.