Project Planning Phase

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

Date	22/06/25
Team ID	LTVIP2025TMID59112
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	E. Gayathri
Sprint-1	Upload CSV	USN-2	As a user, I can upload electricity data in CSV format	3	High	Yarlanki Udaykumar
Sprint-1	Data Cleaning	USN-3	As a developer, I can clean and preprocess uploaded data using Python	4	High	Dasari Venkatesulu
Sprint-1	Database Storage	USN-4	As a developer, I can store cleaned data into MySQL	2	Low	Thummalakunta Mallikarjuna
Sprint-2	Tableau Dashboard	USN-5	As a user, I can view dashboards generated using Tableau	5	High	E. Gayathri
Sprint-2	Web Integration	USN-6	As a user, I can access the dashboard via Flask UI	3	High	Yarlanki Udaykumar
Sprint-2	Add Filters	USN-7	As a user, I can filter the data by region, year, and quarter	2	Medium	Dasari Venkatesulu
Sprint-3	Data Story	USN-8	As a user, I can view a Tableau Story with key electricity usage insights	2	Low	Thummalakunta Mallikarjuna
Sprint-3	Forecasting	USN-9	As a developer, I can forecast usage using Prophet	3	Low	E. Gayathri
Sprint-3	Documentation	USN-10	As a team, we can prepare final project documentation	2	Medium	Yarlanki Udaykumar
Sprint-4	Deployment	USN-11	As a developer, I can deploy the Flask app and publish the Tableau dashboard online	3	High	Dasari Venkatesulu
Sprint-4	Demo Prep	USN-12	As a team, we can prepare a live demo walkthrough for stakeholders	2	Medium	Thummalakunta Mallikarjuna
Sprint-4	Bug Fixing	USN-13	As a developer, I can test and fix UI/visual bugs from user feedback	2	Medium	E. Gayathri

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

Sprint	Total Story Points	Duration	Start Date	End Date	Points Completed	Release Date
Sprint-1	11	6 Days			11	
Sprint-2	10	6 Days			10	
Sprint-3	7	6 Days			7	
Sprint-4	7	6 Days			7	

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)

$$\text{Velocity} = \frac{\text{Total Story Points}}{\text{Total Sprint Days}} = \frac{35}{24} \approx 1.46$$

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.