

Project Planning Phase

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

Date	15 February 2025
Team ID	LTVIP2025TMID48457
Project Name	"Plugging into the Future: An Exploration of Electricity Consumption Patterns Using Tableau"
Maximum Marks	5 Marks

Here's the "Project Planning Template" filled out for your "Plugging into the Future: An Exploration of Electricity Consumption Patterns Using Tableau" project, including a detailed Product Backlog, Sprint Schedule, and Velocity calculation.

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Date: 15 February 2025

Team ID: [LTVIP2025TMID48457]

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)

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint -1	Data Acquisition & Preprocessing	USN-1	As a data analyst, I can collect the Consumption.csv dataset.	2	High	K.Divya Sree]

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint -1	Data Acquisition & Preprocessing	USN-2	As a data engineer, I can store the consumption data in a database.	1	High	S.K.Faiza
Sprint -1	Data Acquisition & Preprocessing	USN-3	As a data engineer, I can perform SQL operations for data cleaning and preprocessing.	3	High	L.Gayathri
Sprint -1	Data Acquisition & Preprocessing	USN-4	As a data analyst, I can connect the preprocessed database to Tableau.	2	High	K.Divya Sree
Sprint -1	Core Tableau Visualizations	USN-5	As a data analyst, I can create visualizations for 2019 & 2020 state consumption and total consumption (Activity 1.1).	3	High	K.Divya Sree
Sprint -1	Core Tableau Visualizations	USN-6	As a data analyst, I can create visualizations for usage by region and	3	High	K.Divya Sree

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
			identify Top N/Bottom N states (Activity 1.1).			
Sprint -2	Core Tableau Visualizations	USN-7	As a data analyst, I can visualize 2019 and 2020 month-wise consumption (Activity 1.2).	3	Medium	K.Divya Sree
Sprint -2	Core Tableau Visualizations	USN-8	As a data analyst, I can visualize usage before and after lockdown periods (Activity 1.2).	5	High	K.Divya Sree
Sprint -2	Core Tableau Visualizations	USN-9	As a data analyst, I can create region-wise, quarterly, and yearly usage visualizations (Activity 1.3).	5	High	K.Divya Sree
Sprint -2	Core Tableau Visualizations	USN-10	As a data analyst, I can visualize metro city state usage.	3	Medium	K.Divya Sree

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint -2	Dashboard & Story Development	USN-11	As a data analyst, I can design an interactive dashboard for overall consumption trends and KPIs.	5	High	K.Divya Sree
Sprint -2	Dashboard & Story Development	USN-12	As a data analyst, I can design an interactive dashboard for regional and sector-specific insights.	5	High	K.Divya Sree
Sprint -2	Dashboard & Story Development	USN-13	As a data analyst, I can create a narrative Tableau Story summarizing key findings.	3	Medium	K.Divya Sree
Sprint -2	Web Integration	USN-14	As a web developer, I can set up the basic Flask web application structure.	2	Medium	L.Gayathri
Sprint -2	Web Integration	USN-15	As a web developer, I can embed the Tableau dashboards	5	High	L.Gayathri

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
			and story into the Flask UI.			
Sprint -2	Testing & Documentation	USN-16	As a QA analyst, I can perform performance testing on dashboard rendering and filter responsiveness.	2	Medium	G.Hari
Sprint -2	Testing & Documentation	USN-17	As a project manager, I can prepare comprehensive project documentation .	3	High	G.Hari

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

Sprint	Total Story Points (Planned)	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	14	5 Days	17 Feb 2025	21 Feb 2025	14	21 Feb 2025
Sprint-2	33	5 Days	24 Feb 2025	28 Feb 2025	33	28 Feb 2025

Velocity:

- **Total Story Points Completed** = Sprint 1 (14) + Sprint 2 (33) = **47 Story Points**
- **Number of Sprints** = 2

Velocity = Total Story Points Completed / Number of Sprints

Velocity = $47 / 2 = 23.5$ Story Points per Sprint

Conclusion: Your team's estimated velocity for this project is **23.5 Story Points per Sprint**.

Burndown Chart:

A burndown 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, burndown charts can be applied to any project containing measurable progress over time.

(Note: A burndown chart is a visual representation and cannot be directly generated in this text format. You would plot the total remaining story points against the days of the sprint, showing a downward trend as work is completed.)
