

Project Planning Phase

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

Date	25 th March 2025
Team ID	PNT2022TMID06806
Project Name	Global Energy Trends - Power BI Analysis
Maximum Marks	5 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	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	2	High	Developer-1, Developer-2
Sprint-1		USN-2	As a user, I will receive a confirmation email once I have registered for the application.	1	High	Developer-2
Sprint-2		USN-3	As a user, I can register for the application through Facebook.	2	Low	Developer-3
Sprint-1		USN-4	As a user, I can register for the application through Gmail.	2	Medium	Developer-3
Sprint-1	Login	USN-5	As a user, I can log into the application by entering my email & password.	1	High	Developer-1, Developer-2
Sprint-1	Dashboard	USN-6	As a user, I can view a dashboard displaying real-time energy consumption trends.	3	High	Data Analyst-1, Power BI Developer-1
Sprint-2		USN-7	As a user, I can filter energy consumption data by country, region, and year.	2	High	Data Analyst-2, Power BI Developer-1

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2		USN-8	As a user, I can compare renewable vs. non-renewable energy usage with interactive graphs.	3	Medium	Data Analyst-1, Power BI Developer-2

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	20	7 Days	24 Feb 2025	02 Mar 2025	20	02 Mar 2025
Sprint-2	20	7 Days	03 Mar 2025	09 Mar 2025	18	10 Mar 2025
Sprint-3	20	7 Days	11 Mar 2025	17 Mar 2025	15	18 Mar 2025
Sprint-4	20	7 Days	19 Mar 2025	25 Mar 2025	20	25 Mar 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)

$$AV = \frac{\text{sprint duration}}{\text{velocity}} = \frac{20}{10} = 2$$

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>