

Project Planning Phase

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

Date	27 October 2023
Team ID	NM2023TMID06875
Project Name	Project - Solar Panel Forecasting
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	Solar Data Collection	USN-1	As a user I can collect real-time solar power and weather data	5	High	SENTHIL RAJA B
Sprint-1	Data Integration	USN-2	As a user I can integrate data from various sources for accurate forecasting	8	High	VANCHINATHAN P
Sprint-2	Predictive Modeling	USN-3	As a user I can develop advanced forecasting models for solar power predictions	13	High	SARAVANAN M
Sprint-2	Real-time Updates	USN-4	As a user I can receive real-time solar power forecasts	3	Medium	VASUDEVAN N

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-1	13	2 Days	25 Oct 2023	27 Oct 2023	13
Sprint-2	16	2 Days	27 Oct 2023	29 Oct 2023	29

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>