Project Planning Phase

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

Date	15 February 2025
Team ID	LTVIP2026TMIDS87694
Project Name	EV Battery Performance and Range Monitoring System
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	Alice, Bob
Sprint-1	Registration	USN-2	As a user, I will receive confirmation email once I have registered for the application.	1	High	Alice
Sprint-1	Registration	USN-4	As a user, I can register for the application through Gmail.	2	Medium	Bob
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password.	1	High	Alice, Charlie

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2	Registration	USN-3	As a user, I can register for the application through Facebook.	2	Low	Bob
Sprint-2	Dashboard	USN-6	As a user, I can view EV range dashboard after login.	3	High	Alice, Charlie
Sprint-2	Dashboard	USN-7	As a user, I can visualize charge data trends (bar/pie charts).	3	High	Charlie, David
Sprint-2	Dashboard	USN-8	As an admin, I can monitor user analytics on dashboard.	3	Medium	David

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**	**6 Days**	**24 Oct 2022**	**29 Oct 2022**	**20**	**29 Oct 2022**

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-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	05 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	18	13 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	19 Nov 2022

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)

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

Burndown Chart Guidance

Track daily remaining points vs. ideal line (straight decline from total to 0). For Sprint-1 (20 points, 6 days):

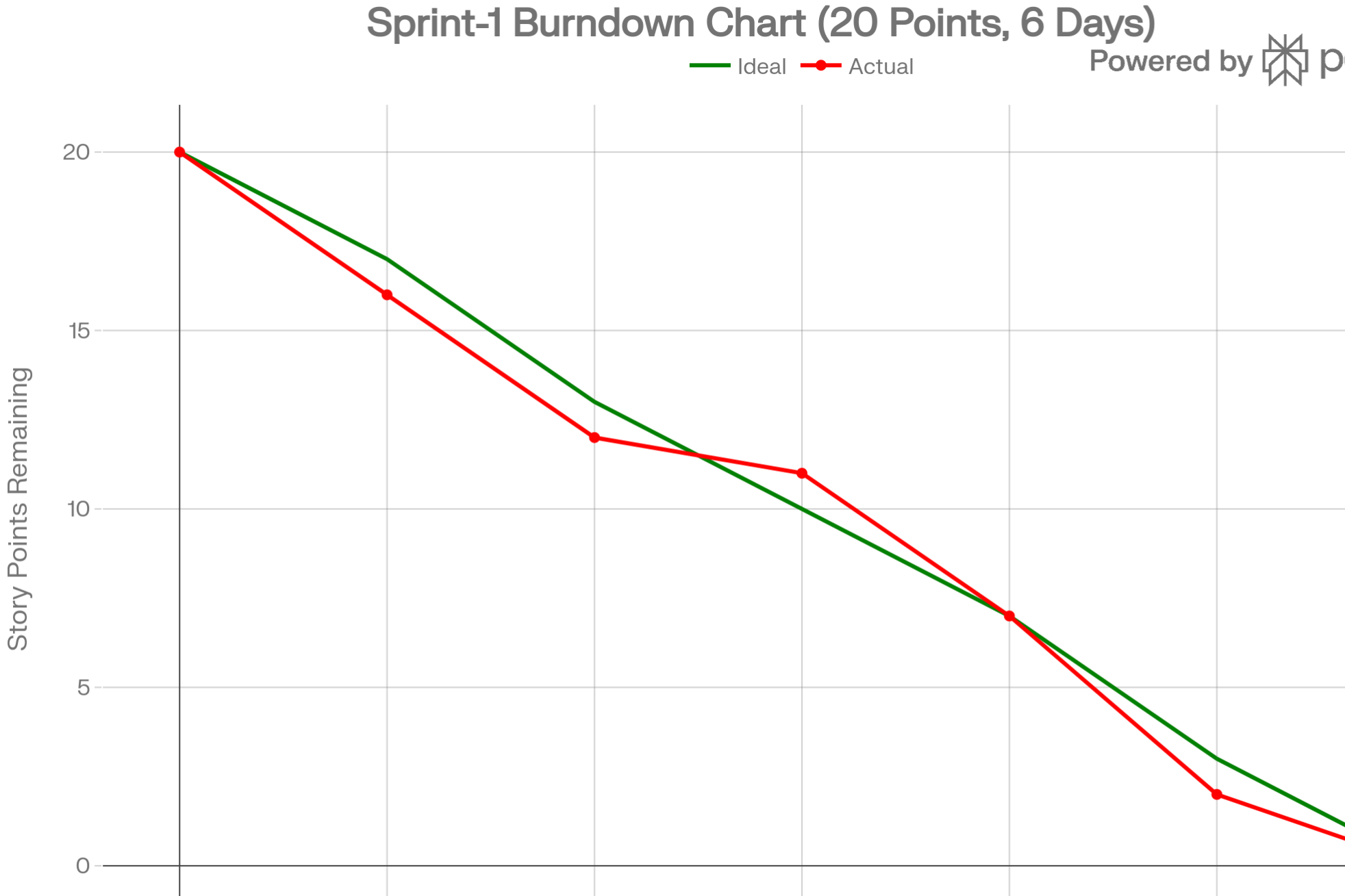
- **Day 0: 20 remaining**

- **Plot actual burn (e.g., Day 3: 12 left → on track)**
- **Use Excel/Plotly: X-axis days, Y-axis points remaining.**

Day	Ideal Remaining	Actual Remaining
0	20	20
1	17	16
2	13	12
3	10	11
4	7	7
5	3	2
6	0	0

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.


Sprint-1 Burndown Chart (20 Points, 6 Days)
Ideal
Actual
Powered by
Story Points Remaining
20
15
10
5
0

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