

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

Date	10 February 2026
Team ID	LTVIP2026TMIDS38933
Project Name	Visualization Tool for Electric Vehicle Charge and Range Analysis
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	Registration	USN-1	As a user, I can register for the EV analysis application by entering email, password, and confirming password.	2	High	Team A
Sprint-1		USN-2	As a user, I will receive confirmation email after registration.	1	High	Team A
Sprint-2		USN-3	As a user, I can register through Gmail.	2	Low	Team B
Sprint-1		USN-4	As a user, I can register for the application through LinkedIn.	2	Medium	Team A
Sprint-1	Login	USN-5	As a user, I can log into the application using email & password.	1	High	Team B
Sprint-2	Dashboard	USN-6	As a user, I can view EV charge and range dashboard.	3	High	Team A

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	01 Feb 2026	06 Feb 2026	20	06 Feb 2026
Sprint-2	20	6 Days	08 Feb 2026	13 Feb 2026	18	14 Feb 2026
Sprint-3	20	6 Days	15 Feb 2026	20 Feb 2026	20	20 Feb 2026
Sprint-4	20	6 Days	22 Feb 2026	27 Feb 2026	19	23 Feb 2026

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.
- • X-axis → Time (Days)
- Y-axis → Remaining Story Points
- Line goes down as work gets completed.

Example for 20 Story Points Sprint:

Day Remaining Points

Day 1 20

Day 2 18

Day 3 15

Day 4 12

Day 5 8

Day 6 4

Day 7 0

As work progresses, remaining points reduce to zero.

<https://www.visual-paradigm.com/scrum/scrum-burndown-chart/>

<https://www.atlassian.com/agile/tutorials/burndown-charts>

## References:

<https://www.visual-paradigm.com/scrum/scrum-burndown-chart>

<https://www.atlassian.com/agile/tutorials/burndown-charts>

<https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software>