

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>