Project Planning Phase

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

Date	26 January 2026
Team ID	LTVIP2026TMIDS61504
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	User registration using email & password	2	High	Team
Sprint-1	Registration	USN-2	Confirmation email after registration	1	High	Team
Sprint-1	Login	USN-3	Login using email & password	1	Low	Team
Sprint-1	Dashboard	USN-4	Basic EV dashboard view	3	Medium	Team
Sprint-2	Visualization	USN-5	Battery charge & range visualization	4	High	Team
Sprint-2	Visualization	USN-6	Battery charge & range visualization	3	Medium	Team
Sprint-3	Charging Analysis	USN-7	Charging time vs distance analysis	4	High	Team
Sprint-3	Location Analysis	USN-8	Charging station availability view	3	High	Team
Sprint-3	Admin	USN-9	Upload and manage EV datasets	4	High	Team
Sprint-3	Optimiztion	USN=10	Dashboard performance optimization	3	High	Team

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	20 Jan 2026	25 Jan 2026	20	25 Jan 2026
Sprint-2	20	6 Days	27 Jan 2026	01 Feb 2026	20	01 Feb 2026
Sprint-3	20	6 Days	03 Feb 2026	08 Feb 2026	20	08 Feb 2026
Sprint-4	20	6 Days	10 Feb 2026	15 Feb 2026	20	15 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)

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

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