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

Date	25 February 2026
Team ID	LTVIP2026TMIDS40890
Project Name	Visualization Tool For Electric Vehicle Charge and Range Analysis
Maximum Marks	5 Marks

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority
Sprint-1	Data Collection	USN-1	Collect EV datasets	2	High
Sprint-1	Data Preparation	USN-2	Clean and preprocess data	3	High
Sprint-1	Data Preparation	USN-3	Create calculated fields	3	High
Sprint-2	Visualization	USN-4	Build charts and maps	4	High
Sprint-2	Dashboard Design	USN-5	Create dashboards	5	High
Sprint-2	Story Developement	USN-6	Create Tableau stories	5	Medium

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	05 Feb 2026	10 Feb 2026	20	10 Feb 2026
Sprint-2	20	6 Days	11 Feb 2026	16 Feb 2026	19	16 Feb 2026
Sprint-3	20	6 Days	17 Feb 2026	22 Feb 2026	20	22 Feb 2026
Sprint-4	20	6 Days	23 Feb 2026	28 Feb 2026	17	28 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)

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

Sprint 1 Total Story Points = 8

Sprint 2 Total Story Points = 14

Total Story Points = 22

Number of Sprints = 2

Velocity = 22 / 2 = 11 Story Points per Sprint

Project Progress Tracking

The project progress is monitored using sprint planning and story points. Each sprint contains defined tasks that are completed within a specific time period. This helps in maintaining consistent development speed and ensures dashboard completion within deadlines.

Burndown Chart:

The burndown chart is used to track the remaining work in a sprint over time. It shows how many story points are left to complete as the project progresses. In this project, the burndown chart helps monitor dashboard development, data cleaning tasks, and story creation activities. As each sprint progresses, the remaining work decreases, showing steady project completion.

The chart helps the team ensure that development is moving according to schedule and allows early identification of delays. By tracking daily progress, the team maintains consistent velocity and completes all planned tasks within the sprint duration.