Project Planning Phase

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

Date	18 February 2026
Team ID	LTVIP2026TMIDS91295
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	Data Collection	USN-1	Download EV datasets	2	High	Member 1
Sprint-1	Database Setup	USN-2	Import data into MySQL	3	High	Member 1
Sprint-1	Tableau Connection	USN-3	Connect Tableau to MySQL	2	High	Member 3
Sprint-2	Data Preprocessing	USN-4	Clean data using Tableau Prep	3	High	Member 2
Sprint-2	Visualization Creation	USN-5	Create charts & visuals	5	High	Member 3
Sprint-3	Dashboard & Story	USN-6	Build interactive dashboard	4	High	Member 3
Sprint-3	Publish Dashboard	USN-7	Publish in Tableau Public	2	Medium	Member 3
Sprint-4	Flask Integration	USN-8	Integrate dashboard into web app	4	High	Member 4

Project Tracker, Velocity & Burndown Chart: (4 Marks)

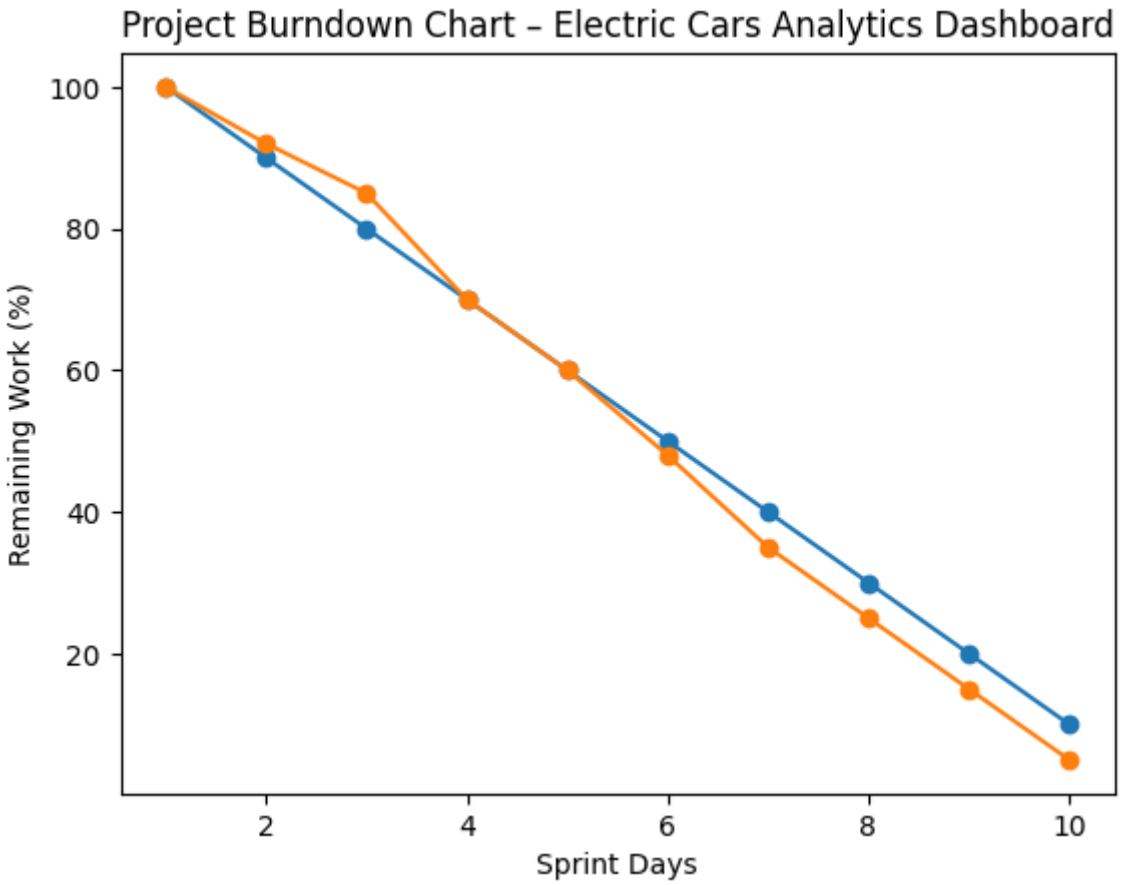
Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	9	6 Days	01 Feb 2026	06 Feb 2026	9	06 Feb 2026
Sprint-2	8	6 Days	08 Feb 2026	13 Feb 2026	8	13 Feb 2026
Sprint-3	6	6 Days	15 Feb 2026	18 Feb 2026	6	18 Feb 2026
Sprint-4	7	6 Days	19 Feb 2026	24 Feb 2026	7	24 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.



The burndown chart represents the progress of the Electric Cars Analytics project over a 10-day sprint period. The ideal line shows the planned reduction of work, while the actual line represents the real progress made by the team during development.

At the beginning of the sprint, 100% of the work was pending, including data connectivity, preprocessing, sheet creation, dashboard design, story development, and Flask integration. As the project progressed, tasks such as visualization creation and publishing were completed, reducing the remaining workload gradually. The chart shows that the team maintained consistent progress and successfully completed most tasks by the end of the sprint.