Project Planning Phase

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

Date	18 February 2026
Team ID	LTVIP2026TMIDS24188
Project Name	Visualization Tool for Electric Vehicle Charge and Range Analysis
Maximum Marks	5 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	Priority	Team Members
Sprint-1	Registration & Login	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	High	vidya
Sprint-1		USN-2	As a user, I receive confirmation email after registration	High	vidya
Sprint-1	Vehicle Input Module	USN-3	As a user, I can input battery %, vehicle model, and range preference	High	Manasvi Neha Naidu
Sprint-2	Range Estimation	USN-4	As a user, I can view estimated range on a visual map	High	Manasvi Neha Naidu
Sprint-1		USN-5	As a user, I can see alerts when range is critically low	Medium	Jahnavi
Sprint-2	Charging Station Mapping	USN-6	As a user, I can view nearby stations filtered by charger type and availability	High	Jahnavi
Sprint-3	History & Analytics	USN-7	As a user, I can view previous charge sessions with distance and cost data	Medium	Karthik
		USN-8	As a user, I can export session summaries for analysis	Low	Karthik

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	16 February 2026	16 February 2026	20	20 February 2026
Sprint-2	20	6 Days	16 February 2026	16 February 2026		
Sprint-3	20	6 Days	18 February 2026	18 February 2026		
Sprint-4	20	6 Days	18 February 2026	18 February 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