Project Planning Phase

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

Date	25 -7- 2025
Team ID	PNT2025TMID08397
Project Name	**Visualizing Housing Market Trends Using Tableau for ABC Company**
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	Story Points	Priority	Team Members
Sprint-1	Data Collection & Preprocessing	USN-1	As a data analyst, I want to upload housing CSV data for analysis.	2	High	
Sprint-1	Data Preprocessing	USN-2	Handle missing values in dataset using Pandas.	1	High	
Sprint-1	Data Preprocessing	USN-3	Handle categorical variables (e.g., renovation status, structure) using encoding.	2	Low	
Sprint-1	Data Cleaning	USN-4	Transform raw CSV (calculate age, restructure features).	2	Medium	
Sprint-2	Dashboard Creation	USN-5	Create Tableau dashboard for housing price trends.	1	High	
Sprint-2	Dashboard Filters	USN-6	Add filters for renovation, age, bedrooms, price range.			
Sprint-2	Hosting	USN-7	Publish dashboard to Tableau Public and get shareable link.			

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2	Integration	USN-8	Embed Tableau dashboard in Flask-based HTML page.			
Sprint-2	Deployment	USN-9	Deploy Flask app locally			

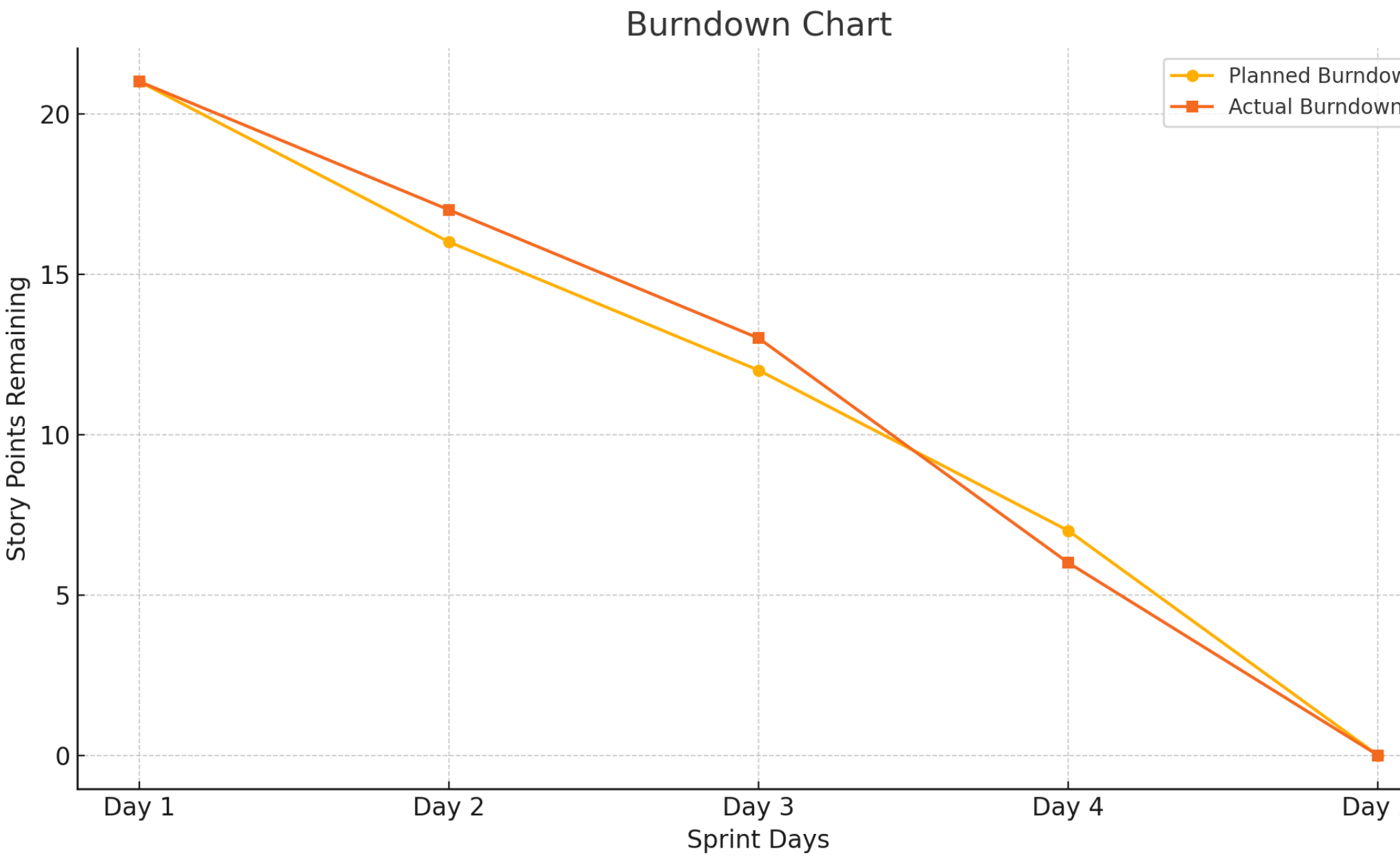
Project Tracker, Velocity & Burndown Chart: (4 Marks)

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	8	6 Days	14-7-2025	20-7-2025	8	20-7-2025
Sprint-2	13	8 Days	20-7-2025	28-7-2025	13	20-7-2025

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
Planned Burndow
Actual Burndown
Story Points Remaining
20
15
10
5
0
Day 1
Day 2
Day 3
Day 4
Day
Sprint Days

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