Project Planning Phase

Project Planning Template(ProductBacklog,SprintPlanning, Stories, Story points)

Date	24 june 205
Team ID	LTVIP2025TMID49805
Project Name	Visualizing Housing Market Trends An Analysis of Sale Prices and Features using Tableau
Maximum Marks	5Marks

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	As a user, I want to collect the housing dataset for analysis.	2	High	Divya
Sprint-1	Data Collection	USN-2	As a user, I want to load the dataset into Tableau.	1	High	Ayesha
Sprint-1	Data Preprocessing	USN-3	As a user, I want to handle missing values in the dataset to ensure data quality.	3	Medium	Harini
Sprint-1	Data Preprocessing	USN-4	As a user, I want to transform categorical variables to usable format.	2	Medium	Shailu
Sprint-2	Model Building	USN-5	As a user, I want to build a model to predict housing prices.	5	High	Ayesha
Sprint-2	Model Building	USN-6	As a user, I want to test the model with real data to ensure its accuracy.	3	Medium	Divya
Sprint-2	Deployment	USN-7	As a user, I want working HTML pages to present my findings.	3	Medium	Sharmila
Sprint-2	Deployment	USN-8	As a user, I want to deploy the model and dashboard using Flask.	5	High	Ayesha

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	5 Days	1 Jul 2025	5 Jul 2025	8	5 Jul 2025
Sprint-2	16	5 Days	6 Jul 2025	10 Jul 2025	16	10 Jul 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)

Velocity Calculation
Velocity=Total Story PointsNumber of Sprints=242=12 Story Points/Sprint\text{Velocity} = \frac{\text{Total Story Points}}{\text{Number of Sprints}} = \frac{24}{2} = 12 \text{ Story Points/Sprint}Velocity=Number of SprintsTotal Story Points=224=12 Story Points/Sprint Average Velocity (AV)=Sprint DurationVelocity=1012≈0.83 (Story Points/Day)\text{Average Velocity (AV)} = \frac{\text{Sprint Duration}}{\text{Velocity}} = \frac{10}{12} \approx 0.83 \text{ (Story Points/Day)}Average Velocity (AV)=VelocitySprint Duration=1210≈0.83 (Story Points/Day)

Burndown Chart:

Aburn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such asScrum. However, burn down charts can be applied to any project containing measurable progress over time.

Burndown Chart Summary

Sprint-1 Start: 8 story points

Sprint-1 End: 0 story points remaining

Sprint-2 Start: 16 story points

Sprint-2 End: 0 story points remaining

The burndown chart will show a steady decline from 24 → 0 over 10 days, with ~2.4 story points completed per day.