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

Date	15 February 2025
Team ID	PNT2025TMID09511
Project Name	Visualizing Housing Market Trends
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	User Type
Sprint-1	Import Housing Dataset	USN-1	As a user, I want to upload Excel/CSV datasets for housing prices and features.	2	High	Customer
Sprint-2	Integrate Real-Time Data API	USN-2	As a user, I want to retrieve real estate data through API integration.	1	Medium	Customer
Sprint-2	Data Cleaning & Enrichment	USN-3	As a user, I want to remove null values and standardize data formats.	2	High	Customer
Sprint-2	Generate Graphs & Charts	USN-4	As a user, I want to explore interactive bar, line, and map-based visualizations.	2	Medium	Customer
Sprint-3	Export Dashboard Insights	USN-5	As a user, I want to download the visualizations and insights in various formats.	1	Low	Customer
Sprint-3	User Role Management	USN-6	As an admin, I want to control access and manage user permissions.	2	High	Admin
Sprint-2	Apply Custom Filters	USN-7	As a user, I want to apply filters such as location, budget, and year range.	2	High	Customer
Sprint-4	Feature Usage Monitoring	USN-8	As an admin, I want to monitor how users interact with different dashboard tools.	2	High	Admin

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	24 Oct 2022	29 Oct 2022	1	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	7	05 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	3	12 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	1	19 Nov 2022

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
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https://www.atlassian.com/agile/tutorials/burndown-charts