

## Project Planning Phase

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

Date	29 June 2025
Team ID	LTVIP2025TMID48638
Project Name	visualizing housing market trends: an analysis of sale
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 & Preparation	USN-1	As a user, I want the system to collect housing sale data from APIs and CSV files	3	High	1
Sprint -1	Data Cleaning	USN-2	As a user, I want to view only valid, clean data for analysis	2	High	1
Sprint -1	User Login	USN-3	As a user, I can log in with email and password	2	High	1
Sprint -2	Trend Analysis Module	USN-1	As a user, I can view sales trends using filters like location and price range	4	High	2

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint -2	Interactive dashboard	USN-2	As a user, I can interact with graphs and maps for better visualization	5	High	2
Sprint -2	Predictive Modeling	USN-3	As a user, I can get price trend predictions based on past data	4	Medium	2
Sprint -3	Map Integration	USN-1	As a user, I can see housing sales on an interactive map	3	Medium	3
Sprint -3	Export Report Feature	USN-2	As a user, I can export visualizations as PDF/CSV	2	Low	3

#### 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	5	2 Days	28 June 2025	30 June 2025	5	30 June 2025

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-2	6	2 Days	30 June 2025	1 july 2025	6	1 July 2025
Sprint-3	6	2 days	1 july 2025	3 july 2025	6	3 july 2025

### Velocity:

**Sprint-1 Velocity:**  $7 \text{ story points} / 6 \text{ days} = 1.17 \text{ story points/day}$

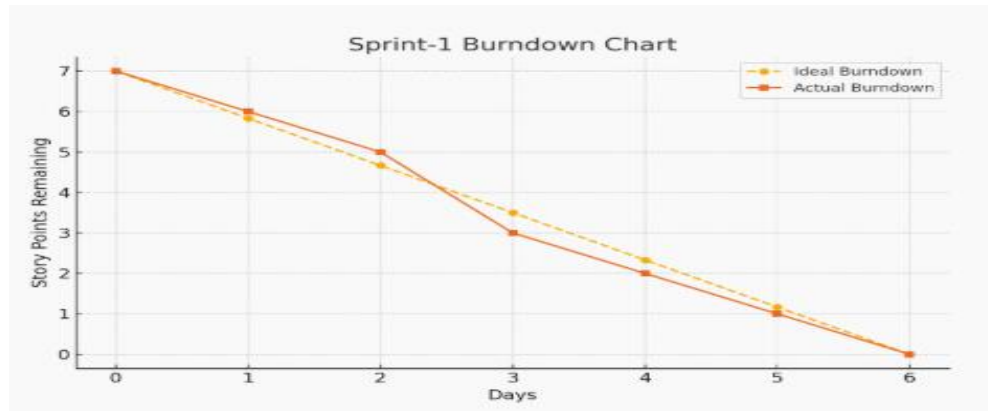
If Sprint-2 and Sprint-3 are completed as planned:

Sprint-2 Velocity =  $13 / 6 = 2.17 \text{ story points/day}$

Sprint-3 Velocity =  $7 / 6 = 1.17 \text{ story points/day}$

**Average Velocity (across all 3 Sprints)** =  $(7 + 13 + 7) / (6 + 6 + 6) = 27 / 18 = 1.5 \text{ story points/day}$

### Burndown Chart:



Here is the **Burndown Chart** for **Sprint-1** of your project *“Visualizing Housing Market Trends: An Analysis of Sale”*. It shows both the **ideal** and **actual** story points remaining across the 6-day sprint