

## Project Planning Template

Date:	24 June 2025
Team ID:	LTVIP2025TMID50341
Project Name:	visualizing housing market trends: an analysis of sale prices and features using tableau
Maximum Marks:	5 marks

### Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Data Collection & Overview	USN-1	As a stakeholder, I want to collect and transform housing market data to create a comprehensive dataset overview.	1	High	Team Member -1
Sprint-1	Data Analysis Setup-1	USN-2	As a real estate analyst, I want to load housing data into Tableau for visualization and analysis.	2	High	Team Member -1
Sprint-1	Data Preprocessing	USN-3	As a user, I want to clean and prepare housing data including sales prices, renovation years, and house features.	2	High	Team Member -2

Sprint-2	Renovation Impact Analysis	USN-4	As a stakeholder, I want to visualize total sales by years since renovation to understand renovation impact on pricing.	3	High	Team Member -4
Sprint-2	Age Distribution Analysis	USN-5	As a real estate analyst, I want to create a pie chart showing house age distribution by renovation status.	3	Medium	Team Member -2
Sprint-2	Feature-Based Analysis	USN-6	As a marketing team member, I want to analyze house age distribution by number of bathrooms, bedrooms, and floors.	3	High	Team Member -3
Sprint-2	Dashboard Creation	USN-7	As an executive stakeholder, I want an interactive dashboard combining all visualizations for strategic decision making.	5	High	Team Member -4
Sprint-2	Story Development	USN-8	As a company executive, I want a Tableau story that presents insights in a narrative format for presentations.	5	Medium	Team Member -3

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

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed	Sprint Release Date
Sprint-1	8	5 Days	16 June 2025	20 June 2025	5	20 June 2025
Sprint-2	18	5 Days	21 June 2025	25 June 2025	19	25 June 2025

### Velocity Calculation:

- Total Story Points = 24
- Number of Sprints = 2
- Velocity =  $24 / 2 = 12$  Story Points per Sprint

## Burndown Chart

A burndown chart is a graphical representation of work left to do versus time. It tracks the progress of completing user stories throughout the project timeline.

### Sprint Progress:

- Day 0: 24 points (Project Start - 16 June)
- Day 2: 18 points (Data collection completed - 18 June)
- Day 4: 12 points (Data preprocessing completed - 20 June)
- Day 5: 5 points (Sprint 1 complete - 20 June)
- Day 6: 16 points (Sprint 2 starts - 21 June)
- Day 8: 8 points (Age distribution analysis completed - 23 June)
- Day 9: 4 points (Feature-based analysis completed - 24 June)
- Day 10: 0 points (Sprint 2 complete - 25 June)

### Project Deliverables:

1. Overall Data Overview Dashboard
2. Total Sales by Years Since Renovation Histogram
3. House Age Distribution by Renovation Status Pie Chart
4. House Age Distribution by Bathrooms, Bedrooms, and Floors Bar Chart

5. Interactive Tableau Dashboard
6. Tableau Story for Executive Presentation

### Key Stakeholders:

- Real Estate Analysts
- Marketing Teams
- Company Executives

### Burndown Chart (Graphical Representation)

Below is the graphical burndown chart based on the story points completed over time

