**Project Planning Phase**

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

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| --- | --- |
| Date | 15 February 2025 |
| Team ID | LTVIP2025TMID51556 |
| Project Name | Visualizing Housing Market Trends: An Analysis of Sales |
| 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 Acquisition, Cleaning & Preparation | USN-1 | As a data analyst, I need to clean the raw housing sales data so that it is accurate and consistent for analysis. | 3 | High | Data analyst |
| Sprint-1 | Data Acquisition, Cleaning & Preparation | USN-2 | As a data analyst, I need to create calculated fields like 'Price per Square Foot' so that I can derive additional insights for analysis. | 1 | High | Data analyst |
| Sprint-1 | Comprehensive Market Trend & Value Analysis | USN-3 | As a potential buyer, I want to see historical average sale prices over time so I can understand overall market trends. | 3 | High | Trend Analysis Specialist |
| Sprint-1 | Comprehensive Market Trend & Value Analysis | USN-4 | As a real estate professional, I want to identify seasonal patterns in sales so I can advise clients on optimal buying/selling times. | 3 | High | Trend Analysis Specialist |
| Sprint-1 | Interactive Geographic Market Exploration | USN-6 | As a potential homebuyer, I want to see average housing prices on a map so I can identify affordable or high-value neighbourhoods. | 4 | High | Geographic Insights Lead |
| Sprint-1 | Interactive Dashboard Development | USN-8 | As a user, I want to filter data by date range (e.g., year, quarter) so I can focus As a user, I want the dashboard to be logically organized and easy to navigate so I can quickly find the information I need. | 2 | High | Dashboard Design Lead |
| Sprint-1 | Interactive Dashboard Development | USN-10 | As a user, I want the dashboard to be logically organized and easy to navigate so I can quickly find the information I need. | 2 | High | Dashboard Design Lead |
| **Total Sprint-1 Story Points:** | **19** |  |  |  |  |  |
| Sprint-2 | Comprehensive Market Trend & Value Analysis | USN-5 | As an investor, I want to understand how different property features (e.g., bedrooms, sqft, grade) influence price so I can identify value drivers. | 4 | Medium | Geographic Insights Lead |
| Sprint-2 | Interactive Geographic Market Exploration | USN-7 | As an agent, I want to visualize sales volume by region on a map so I can identify active markets for targeted marketing. | 3 | Medium | Geographic Insights Lead |
| Sprint-2 | Interactive Dashboard Development | USN-9 | As a user, I want to interact with charts (e.g., click on a bar) to filter related data so I can explore details seamlessly. | 3 | Medium | Dashboard Design Lead |
| Sprint-2 | Narrative Storytelling and Key Insights Presentation | USN-11 | As a presenter, I want to guide my audience through key market trends and findings so I can effectively communicate project insights. | 2 | Medium | Dashboard Design Lead |
| Sprint-2 | Narrative Storytelling and Key Insights Presentation | USN-12 | As an audience member, I want to understand the context and implications of the presented data so I can grasp the full meaning of the trends. | 2 | Medium | Dashboard Design Lead |
| **Total Sprint-2 Story Points:** | 14 |  |  |  |  |  |

**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 | 19 | 8 Days | 16 Jun 2025 | 23 Jun 2025 | 19 | 23 Jun 2025 |
| Sprint-2 | 14 | 7 Days | 24 Jun 2025 | 05 Nov 2022 |  |  |
| Total Project Story Points (Planned): | 33 |  |  |  |  |  |

**Velocity:**

**Average Velocity (per Day for the Entire Team - Planned):**

* Total Story Points / Total Project Days = 33 Story Points / 15 Days =

**2.2 Story Points per Day**

**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](https://www.visual-paradigm.com/scrum/what-is-agile-software-development/) methodologies such as [Scrum](https://www.visual-paradigm.com/scrum/scrum-in-3-minutes/). However, burn down charts can be applied to any project containing measurable progress over time.

