**Project Planning Phase**

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

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| --- | --- |
| Date | June 28,2025 |
| Team ID | LTVIP2025TMID51580 |
| 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)**

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 Setup | USN-1 | As a user, I can upload housing data in CSV format | 3 | High | Rama Pravallika Nukala |
| Sprint-1 | Data Cleaning | USN-2 | As a developer, I can clean and preprocess housing data in Tableau | 4 | High | Rama Pravallika Nukala |
| Sprint-1 | Field Creation | USN-3 | As a user, I can create calculated fields like TotalAreaSqft | 2 | Medium | Rama Pravallika Nukala |
| Sprint-1 | Price BInning | USN-4 | As a user, I can create Sale Price Bin for grouping houses | 2 | Medium | Rama Pravallika Nukala |
| Sprint-2 | Data Visualization | USN-5 | As a user, I can create sheets with charts: price vs feature | 5 | High | Rama Pravallika Nukala |
| Sprint-2 | Dashboard Creation | USN-6 | As a user, I can build an interactive Tableau Dashboard with filters | 3 | High | Rama Pravallika Nukala |
| Sprint-2 | Dashboard Styling | USN-7 | As a user, I can style the dashboard for better readability and navigation | 2 | Medium | Rama Pravallika Nukala |
| Sprint-3 | Storytelling | USN-8 | As a user, I can create a Tableau Story showing insights step by step | 2 | Medium | Rama Pravallika Nukala |
| Sprint-3 | Flask Integration | USN-9 | As a developer, I can embed Tableau dashboard into a Flask web app | 4 | High | Rama Pravallika Nukala |
| Sprint-3 | Embed Testing | USN-10 | As a user, I can test and review the embedded dashboard,UI | 2 | Medium | Rama Pravallika Nukala |
| Sprint-4 | Documentation | USN-11 | As a team,we can prepare final project documentation | 3 | High | Rama Pravallika Nukala |
| Sprint-4 | Demo Preparation | USN-12 | As a team, we can prepare and rehearse a full demo walk through | 2 | Medium | Rama Pravallika Nukala |
| Sprint-4 | Bug Fixing/Final QA | USN-13 | As a team, we can test the full system and fix visual/ logic bugs | 2 | Medium | Rama Pravallika Nukala |

**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 | 11 | 4 Days | 24 June 2025 | 27 June 2025 | 11 | 25 June 2025 |
| Sprint-2 | 10 | 4 Days | 28 June 2025 | 30 June 2025 | 10 | 27 June 2025 |
| Sprint-3 | 7 | 4 Days | 1 July 2025 | 2 July 2025 | 7 | 29 June 2025 |
| Sprint-4 | 7 | 4 Days | 3 July 2025 | 4 July 2025 | 7 | 1 July 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 = total story points /total Days = 35/16 ~ 2.19

**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.

