

Project Planning Phase

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

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| Date | 23/06/25 |
| Team ID | LTVIP2025TMID51669 |
| Project Name | Visualizing housing market trends: an analysis of sale prices and features |
| Maximum Marks | 5 Marks |

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

Use the below template to create product backlog and sprint schedule

| Sprint | Epic | User Story No. | User Story / Task | Points | Priority | Assigned To |
|----------|-----------------------|----------------|--|--------|----------|-----------------------------------|
| Sprint-1 | Data Setup | USN-1 | As a user, I can upload housing data in CSV format | 3 | High | Ganta Eswarsai |
| Sprint-1 | Data Cleaning | USN-2 | As a developer, I can clean and preprocess housing data in Tableau | 4 | High | Kalempudy Pradeep |
| Sprint-1 | Field Creation | USN-3 | As a user, I can create calculated fields like TotalAreaSqft | 2 | Medium | Mattey Sri Lakshmi Parvathi |
| Sprint-1 | Price Binning | USN-4 | As a user, I can create SalePriceBin for grouping houses | 2 | Medium | Gundepalli Venkata Durga Prasanna |
| Sprint-2 | Data Visualization | USN-5 | As a user, I can create sheets with charts: price vs features | 5 | High | Ganta Eswarsai |
| Sprint-2 | Dashboard Creation | USN-6 | As a user, I can build an interactive Tableau Dashboard with filters | 3 | High | Kalempudy Pradeep |
| Sprint-2 | Dashboard Styling | USN-7 | As a user, I can style the dashboard for better readability and navigation | 2 | Medium | Mattey Sri Lakshmi Parvathi |
| Sprint-3 | Storytelling | USN-8 | As a user, I can create a Tableau Story showing insights step by step | 2 | Medium | Gundepalli Venkata Durga Prasanna |
| Sprint-3 | Flask Integration | USN-9 | As a developer, I can embed Tableau dashboard into a Flask web app | 4 | High | Ganta Eswarsai |
| Sprint-3 | Embed Testing | USN-10 | As a user, I can test and review the embedded dashboard UI | 2 | Medium | Mattey Sri Lakshmi Parvathi |
| Sprint-4 | Documentation | USN-11 | As a team, we can prepare final project documentation | 3 | High | Kalempudy Pradeep |
| Sprint-4 | Demo Preparation | USN-12 | As a team, we can prepare and rehearse a full demo walkthrough | 2 | Medium | Gundepalli Venkata Durga Prasanna |
| Sprint-4 | Bug Fixing / Final QA | USN-13 | As a team, we can test the full system and fix visual/logic bugs | 2 | Medium | Ganta Eswarsai |

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

| Sprint | Total Story Points | Duration | Start Date | End Date | Points Completed | Release Date |
|----------|--------------------|----------|--------------|--------------|------------------|--------------|
| Sprint-1 | 11 | 4 Days | 11 June 2025 | 14 June 2025 | 11 | 14 June 2025 |
| Sprint-2 | 10 | 4 Days | 15 June 2025 | 18 June 2025 | 10 | 18 June 2025 |
| Sprint-3 | 7 | 4 Days | 19 June 2025 | 22 June 2025 | 7 | 22 June 2025 |
| Sprint-4 | 7 | 4 Days | 23 June 2025 | 26 June 2025 | 7 | 26 June 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)

$$\text{Velocity} = \frac{\text{Total Story Points}}{\text{Total Days}} = \frac{35}{16} \approx 2.19$$

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 methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.

