

Project Planning Phase

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

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| Date | 22 June 2025 |
| Team ID | LTVIP2025TMID59142 |
| 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 | Epic | User Story No. | User Story / Task | Points | Priority | Assigned To |
|----------|-------------------|----------------|---|--------|----------|-------------------|
| Sprint-1 | Registration | USN-1 | As a user, I can register with my name and email | 2 | High | T. Nikhitha Reddy |
| Sprint-1 | Upload CSV | USN-2 | As a user, I can upload housing market trends data in CSV format | 3 | High | K. Tejaswini |
| Sprint-1 | Data Cleaning | USN-3 | As a developer, I can clean and preprocess uploaded data using Python | 4 | High | Y. Mahidhar Reddy |
| Sprint-1 | Database Storage | USN-4 | As a developer, I can store cleaned data into MySQL | 2 | Low | P. Arshiya |
| Sprint-2 | Tableau Dashboard | USN-5 | As a user, I can view dashboards generated using Tableau | 5 | High | T. Nikhitha Reddy |
| Sprint-2 | Web Integration | USN-6 | As a user, I can access the dashboard via Flask UI | 3 | High | K. Tejaswini |
| Sprint-2 | Add Filters | USN-7 | As a user, I can filter the data by region, year, and quarter | 2 | Medium | Y. Mahidhar Reddy |
| Sprint-3 | Data Story | USN-8 | As a user, I can view a Tableau Story with key market trends insights | 2 | Low | P. Arshiya |
| Sprint-3 | Forecasting | USN-9 | As a developer, I can forecast usage using Prophet | 3 | Low | T. Nikhitha Reddy |
| Sprint-3 | Documentation | USN-10 | As a team, we can prepare final project documentation | 2 | Medium | K. Tejaswini |
| Sprint-4 | Deployment | USN-11 | As a developer, I can deploy the Flask app and publish the Tableau dashboard online | 3 | High | Y. Mahidhar Reddy |
| Sprint-4 | Demo Prep | USN-12 | As a team, we can prepare a live demo walkthrough for stakeholders | 2 | Medium | P. Arshiya |
| Sprint-4 | Bug Fixing | USN-13 | As a developer, I can test and fix UI/visual bugs from user feedback | 2 | Medium | T. Nikhitha Reddy |

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.

