

Project Planning Phase

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

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 Collection | USN-1 | As a user, I can upload housing data in CSV format | 3 | High | Annamdevula Hema Venkata Sri |
| Sprint-1 | Data Cleaning | USN-2 | As a developer, I can clean and preprocess housing data in Tableau | 5 | High | Annamdevula Hema Venkata Sri |
| Sprint-1 | Field Creation | USN-3 | As a user, I can create calculated fields like TotalAreaSqft | 2 | Medium | Annamdevula Hema Venkata Sri |
| Sprint-2 | Price Binning | USN-4 | As a user, I can create SalePriceBin for grouping houses | 2 | Medium | Dola Gowthami |
| Sprint-2 | Data Visualization | USN-5 | As a user, I can create sheets with charts: price vs features | 5 | High | Dola Gowthami |
| Sprint-2 | Dashboard Creation | USN-6 | As a user, I can build an interactive Tableau Dashboard with filters | 3 | High | Dola Gowthami |
| Sprint-3 | Dashboard Styling | USN-7 | As a user, I can style the dashboard for better readability and navigation | 2 | Medium | Chillara Venkata Ramakrishna |
| Sprint-3 | Flask Integration | USN-8 | As a developer, I can embed Tableau dashboard into a Flask web app | 5 | High | Chillara Venkata Ramakrishna |
| Sprint-3 | Embed Testing | USN-9 | As a user, I can test and review the embedded dashboard UI | 2 | Medium | Chillara Venkata Ramakrishna |
| Sprint-1 | Documentation | USN-10 | As a team, we can prepare final project documentation | 3 | High | Annamdevula Hema Venkata Sri |

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 | 10 | 3 Days | 27 June 2025 | 1 July 2025 | 10 | 30 June 2025 |
| Sprint-2 | 10 | 3 Days | 28 June 2025 | 2 July 2025 | 10 | 1 July 2025 |
| Sprint-3 | 8 | 3 Days | 29 June 2025 | 3 July 2025 | 8 | 2 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)

$$AV = 28/9 \approx 3.11 \text{ story points/day}$$

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

Burndown Chart for All Sprints

