Project Planning Phase

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

Date	15 February 2026
Team ID	LTVIP2026TMIDS24884
Project Name	Hear Disease Analysis
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 Collection	USN-1	As a developer, I will collect heart disease dataset from reliable sources.	2	High	Team
Sprint-1	Data Collection	USN-2	As a developer, I will import the dataset into MySQL database.	1	High	Team
Sprint-2	Data Preparation	USN-3	As a developer, I will handle missing values in the dataset.	3	Hight	Team
Sprint-1	Data Preparation	USN-4	As a developer, I will create calculated fields such as BMI categories and age groups.	3	Medium	Team
Sprint-2	Data Visualization	USN-5	As a user, I can view geographical distribution using map.	4	High	Team
Sprint-2	Dashboard Development	USN-6	As a user, I can access an interactive dashboard for analysis.	5	High	Team
Sprint-2	Story Creation	USN-7	As a user, I can view analytical story presentation in Tableau.	5	Medium	Team

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	12	7 Days	2 Jan 2026	07 Jan 2026	20	10 Jan 2026
Sprint-2	20	6 Days	31 Jan 2026	02 Feb 2026	20	11 Feb 2026

Velocity:

Total Story Points Completed = 12 + 20 = 32

$$AV = \frac{sprint\ duration}{velocity} = \frac{20}{10} = 2$$

Number of Sprints = 2

Velocity = Total Story Points Completed / Number of Sprints

Velocity = 32 / 2

Velocity = 16 Story Points per Sprint

If Sprint duration = 7 days

Average Velocity per Day = 16 / 7 ≈ 2.28 Story Points per Day

Burndown Chart:

A **Burndown Chart** represents the remaining work versus time in a sprint.
In this project:

- X-axis represents Sprint Days
- Y-axis represents Story Points
- Work gradually decreases from total story points to zero by sprint end date

It helps:

- Track sprint progress
- Identify delays
- Improve team productivity
- Maintain sprint discipline

https://www.visual-paradigm.com/scrum/scrum-burndown-chart/

Reference:

1. Agile Project Management – Atlassian
   https://www.atlassian.com/agile/project-management
2. Scrum & Sprint Planning Guide
   https://www.atlassian.com/agile/tutorials/sprints
3. Story Points & Estimation
   https://www.atlassian.com/agile/project-management/estimation
4. Burndown Chart Explanation
   https://www.atlassian.com/agile/tutorials/burndown-charts
5. Scrum Guide Official
   https://scrumguides.org
6. Agile Alliance Resources
   https://www.agilealliance.org/agile101/