

Project Planning Phase

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

Date	28 February 2026
Team ID	LTVIP2026TMIDS89151
Project Name	Heart Disease Analysis
Maximum Marks	8 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-2	As a user, I can load heart disease data into the processing environment	1	High	All
Sprint-2	Data Preprocessing	USN-3	As a user, I can handle missing values in the dataset	3	Medium	Bavireddy Vaishnavi
Sprint-2	Data Preprocessing	USN-4	As a user, I can encode or map categorical health variables appropriately	2	Medium	All
Sprint-3	Making Graphs / Visualizations	USN-5	As a user, I can build the initial model based on processed data	5	High	Bavireddy Vaishnavi, Bhattu Jagadeesh Prasad
Sprint-4	Dashboard & Stories	USN-6	Dark UI with eye-feasted color palette	6	High	All
Sprint-5	Report & Documentation	USN-7	The step-by-step guide documentation	7	Medium	All

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	20	1 Day	28 January 2026	28 January 2026	20	28 January 2026
Sprint-2	20	1 Day	29 January 2026	29 January 2026	20	29 January 2026
Sprint-3	20	1 Day	30 January 2026	30 January 2026	20	30 January 2026
Sprint-4	20	1 Day	31 January 2026	31 January 2026	20	31 January 2026
Sprint-5	20	1 Day	01 February 2026	01 February 2026	20	01 February 2026

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)

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

Burndown Chart:

A burndown chart is a visual tool that shows the amount of work remaining over a specific period of time. It is commonly used in agile methodologies like Scrum to track project progress. However, burndown charts can be applied to any project where progress can be measured over time, helping teams monitor performance and stay on schedule.

