Project Planning Phase

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

Date	28 June 2025
Team ID	LTVIP2025TMID35624
Project Name	Revolutionizing Liver Care: Predicting Liver Cirrhosis Using Advanced Machine Learning Techniques
Maximum Marks	5 Marks

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

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Data Collection & Preprocessing	USN-1	Understanding data, Data cleaning, Handling missing values	9	High	Gowthami, Eswar
Sprint-2	Feature Engineering	USN-2	EDA, Encoding, Feature creation	6	High	Navitha, Gowthami
Sprint-3	Model Development	USN-3	Model training, hyperparameter tuning, evaluation	13	Low	Gowthami, Eswar
Sprint-4	Model Deployment	USN-4	Flask API creation, Frontend UI with HTML/CSS/JS	8	Medium	Eswar, Gowthami, Navitha, Chandhan
Sprint-5	Testing & Final Deployment	USN-5	Full system testing, cloud deployment, documentation	13	High	Eswar, Chandhan, HarshaVardhann

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	9	2 Days	17-06-2025	18-06-2025	9	18-06-2025
Sprint-2	7	2 Days	19-06-2025	20-06-2025	7	20-06-2025
Sprint-3	13	3 Days	21-06-2025	23-06-2025	13	23-06-2025
Sprint-4	8	2 Days	24-06-2025	25-06-2025	8	25-06-2025
Sprint-5	13	3 Days	26-06-2025	28-06-2025	13	28-06-2025

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)

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

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.

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

https://www.atlassian.com/agile/tutorials/burndown-charts

Reference:

https://www.atlassian.com/agile/project-management

https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software

https://www.atlassian.com/agile/tutorials/epics

https://www.atlassian.com/agile/tutorials/sprints

https://www.atlassian.com/agile/project-management/estimation

https://www.atlassian.com/agile/tutorials/burndown-charts