Project Planning Phase

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

Date	27 JUNE 20
Team ID	LTVIP2025TMID42853
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)

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	USN-1	Understanding & loading data, Data	2	High	Tarladi Somunaidu
	Collection and		cleaning, Exploratory Data Analysis (EDA)			
	Preprocessing					
Sprint-1	Feature	USN-2	Handling missing values and encoding	1	High	Venna Ganesh Siva Satya
	Engineering		categorical variables, Engineering features			
Sprint-1	Model	USN-3	Training the machine learning model,	2	High	Yenumula
	Development		Evaluating the model			Mohan Sai Praveen
Sprint-1	Model	USN-4	Creating a Flask app to deploy the	2	High	Kovvuri Vijaya
	Development		model, Developing the front-end using			Durga
			HTML, CSS, and JS			
Sprint-1	Testing, Validation,	USN-51	Testing the application, validating model	1	High	Tarladi Somunaidu
	and Final		predictions, Deploying on a cloud platform,			
	Deployment		Final testing			

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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	1 Days	19 Jun 2025	19 Jun 2025	12	19 Jun 2025
Sprint-2	12	2 Days	20 Jun 2025	21 Jun 2025	12	21 Jun 2025
Sprint-3	12	2 Days	22 Jun 2025	23 Jun 2025	12	23 Jun 2025
Sprint-4	12	3 Days	24 Jun 2025	26 Jun 2025	12	26 Jun 2025
Sprint-5	12	1 Days	27 Jun 2025	27 Jun 2025	12	27 Jun 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)

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

Velocity =
$$(16+8)/2 = 24/2$$

12 (Story Points per Sprint)

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