

Project Planning Phase

Date	17 th June 2025
Team ID	LTVIP2025TMID59671
Project Name	Revolutionizing Liver Care: Predicting Liver Cirrhosis using Advanced Machine Learning
Maximum Marks	5 Marks

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

Project Tracker, Velocity
& Burndown Chart: (4
Marks)

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority
Sprint-1	Data collection	USN-1	Collected liver cirrhosis disease dataset	2	High
Sprint-1	Data Preprocessing	USN-2	Preprocess clinical data (e.g., normalize Bilirubin, Age) for model training	1	High
Sprint-2	Model Development	USN-3	Train Random Forest model for cirrhosis prediction	2	Low
Sprint-3	User Interface	USN-4	Develop Flask-based web inter face for data input	2	Medium
Sprint-4	User Testing	USN-5	As a user , I can enter the input values through the application and application predicts the liver cirrhosis disease based upon the inputs provided by me.	1	High
Sprint-4	Dashboard	USN-6	Contains of multiple pages like Home,input,res.	2	High

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	6	3 Days	4 Jun 2025	6 Jun 2025	6	6 Jun 2025
Sprint-2	6	5 Days	7 Jun 2025	11 Jun 2025		
Sprint-3	6	8 Days	12 Jun 2025	19 Jun 2025		
Sprint-4	6	8 Days	20 Jun 2025	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)

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

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>