Project Planning Phase

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

Date	27 June 2025
Team ID	LTVIP2025TMID60884
Project Name	Revolutionizing Liver Care: Predicting Liver cirrhosis using Advanced Machine Learning Techniques.
Maximum Marks	5 Marks

Product Backlog, Sprint Schedule, and Estimation

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Registration	USN-1	As a user, I can register with email and password to access liver health services.	2	High	
Sprint-1	Registration	USN-2	As a user, I will receive a verification email after registering.	1	High	
Sprint-1	Health Data Upload	USN-3	As a patient, I can upload liver test results (e.g., ALT, AST, Bilirubin).	3	High	
Sprint-1	AI-Based Prediction	USN-4	As a system, I will validate uploaded data and trigger the ML model.	2	Medium	
Sprint-2	AI-Based Prediction	USN-5	As a patient, I will receive liver cirrhosis risk prediction after upload.	3	High	
Sprint-2	Doctor Dashboard	USN-6	As a doctor, I can view a dashboard with my patients' prediction history.	5	High	
Sprint-2	Health Data Upload	USN-7	As a patient, I can view the status of my uploaded data.	2	Medium	

Project Tracker, Velocity & Burndown Chart:

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprin-1	20	6 Days	6 Jun 2025	11 Jun 2025	20	11 Jun 2025
Sprint-2	20	6 Days	12 Jun 2025	17 Jun 2025		
Sprint-3	20	6 Days	18 Jun 2025	23 Jun 2025		
Sprint-4	20	6 Days	24 Jun 2025	30 Jun 2025		

Velocity Calculation

Velocity = Story Points Completed / Sprint Duration Sprint-1:

Completed 8 points in 6 days → Velocity = 1.33 story points/day

If this trend continues, the team average velocity = 1.33 story points/day

Burndown Chart (Description)

X-Axis: Sprint Days (e.g., Day 1 to Day 6)

Y-Axis: Story Points Remaining

Start with 8 story points on Day 1

Ideal line: linear decrease from 8 to 0 by Day 6

Actual line: updated daily, showing real progress

Example:

SAMPLE BURNDOWN CHART FOR A 1-WEEK SPRINT