

Project Planning Phase

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

Date	31 October 2022
Team ID	PNT2022TMID14267
Project Name	Statistical Machine Learning Approaches to Liver Disease Prediction
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	User Input	USN-1	Test datas are given as input for prediction	10	High	M. Ashmitha, L.R. Devi Priya
Sprint-1		USN-2	Model compares the given data with the Liver disease affected data	10	High	J.Thersal, R. Sruthi
Sprint-2	Prediction	USN-3	Model predicts the Liver disease using Machine learning algorithm Support Vector	20	High	J.Thersal, M. Ashmitha

			Machine (SVM)			
Sprint-3	Classifier	USN-4	Model sends all the output to the classifier and produces the final result.	20	High	R. Sruthi, L.R. Devi Priya

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-4	Announcement	USN-5	Model then displays whether the patient is affected by liver disease or not	10	High	J. Thersal, R. Sruthi
	Events		This model needs the capability of displaying accurate result	10	High	M. Ashmitha, L.R. Devi Priya

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	6 Days	24 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	05 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	12 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	19 Nov 2022

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:

30

25

20

15

10

5

0

0 2 4 6 8 10 12 14 16 18 20 22 24

idea task remaining actual task remaining