Project Planning Phase

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

Date	07 November 2022
Team ID	PNT2022TMID12919
Project Name	Project - Statistical Machine Learning Approaches to Liver Disease Prediction
Maximum Marks	8 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 Pre Processing and Model creation	USN-1	As a user, I built a model to predict the liver disease of patients.	10	High	Adhithya S, Divya P, Sudharshan N, Uma Bharathi S
Sprint-2	Evaluation of Model	USN-2	The created model is evaluated.	8	High	Adhithya S, Divya P, Sudharshan N, Uma Bharathi S
	Testing of Model	USN-3	The created model is tested.	7	Low	Adhithya S, Divya P, Sudharshan N, Uma Bharathi S
Sprint-3	Home page, prediction page, output page creation.	USN-4	The webpage for prediction and its outputs is created.	10	High	Adhithya S, Divya P, Sudharshan N, Uma Bharathi S
Sprint-4	Base flask app and Integration	USN-5	A base flask web app must be created as an interface for the ML model and integrate Flask, CNN model with cloudant DB	10	High	Adhithya S, Divya P, Sudharshan N, Uma Bharathi S
	Dashboard	USN-6	As a user, I can view the previous results and history.	5	Low	Adhithya S, Divya P, Sudharshan N, Uma Bharathi S

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	10	5 Days	24 Oct 2022	29 Oct 2022	0	03 Nov 2022
Sprint-2	15	6 Days	31 Oct 2022	05 Nov 2022	15	05 Nov 2022
Sprint-3	10	6 Days	07 Nov 2022	13 Nov 2022		
Sprint-4	15	5 Days	14 Nov 2022	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)

$$AV = \frac{sprint\ duration}{velocity}$$

AV = 6/15 = 0.4

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.