Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID17773
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	USN-1	Removing rows having null values, converting string values to numeric value.	10	Easy	B.Swetha M.Pushpa Lathaa J.JayaSri Balamurugan Ramya.
Sprint-1		USN-2	Data visualization	10	Easy	B.Swetha M.Pushpa Lathaa J.JayaSri Balamurugan Ramya.
Sprint-2	Model building	USN-3	Developing machine learning models for liver disease prediction.	10	High	B.Swetha M.Pushpa Lathaa J.JayaSri Balamurugan Ramya.

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2		USN-4	Improving accuracy of the built model	10	Medium	B.Swetha M.Pushpa Lathaa J.JayaSri Balamurugan Ramya.
Sprint-3	Integrating model with html page	USN-5	Designing html page for getting the user inputs for making the prediction	5	Easy	B.Swetha M.Pushpa Lathaa J.JayaSri Balamurugan Ramya.
Sprint-3		USN-6	Integrating built model and HTML page for making the liver disease prediction	15	Medium	B.Swetha M.Pushpa Lathaa J.JayaSri Balamurugan Ramya.
Sprint-4	Deploying the system in IBM cloud	USN-7	The liver disease prediction system is deployed in the IBM cloud	20	High	B.Swetha M.Pushpa Lathaa J.JayaSri Balamurugan Ramya. .

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	18	07 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	19	20 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)

$$AV=\frac{Sprint\ duration}{Velocity}=\frac{6}{20}=0.3$$

Burndown Chart: