Project Planning Phase

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

Domain	Artificial Intelligence
Team ID	PNT2022TMID33679
Project Name	Emerging Methods for Early Detection of Forest Fires
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	Collect the data.	USN-1	As an Environmentalist, it is necessary to collect the data of the forest which includes temperature, humidity, wind, and rain of the forest.	20	High	Elamathi T Kusuma R Aruna D Boopathidass
Sprint -2	Identifing algorithm which is used for detecting the forest fires.	USN-2	Identify algorithms that can be used for predicting the forest fires.	10	Medium	Elamathi T Kusuma R Aruna D Boopathidass
Sprint -3	Implement Algorithm	USN-3	Identify the accuracy of each algorithm in detecting the fires.	20	Medium	Elamathi T Kusuma R Aruna D Boopathidass
Sprint-4	Reliability	USN-4	Evaluate the data collected from algorithm with the defined data set.	20	Medium	Elamathi T Kusuma R Aruna D Boopathidass

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	5 Days	24 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint-2	15	6 Days	31 Oct 2022	05 Nov 2022	15	05 Nov 2022
Sprint-3	20	8 Days	07 Nov 2022	12 Nov 2022	20	12 Nov 2022
Sprint-4	20	10 Days	14 Nov 2022	19 Nov 2022	20	19 Nov 2022

Velocity:

The velocity of the team is 20 (points per sprint). The team's average velocity(AV) per iteration unit (story points per day) is given by:

Sprint 1 Average Velocity:

- Average velocity =20 /5 = 4.0

Sprint 2 Average Velocity:

- Average velocity = 15 / 6 = 2.5

Sprint 3 Average Velocity:

- Average velocity = 20 / 8 = 2.5

Sprint 4 Average Velocity:

- Average velocity = 20 / 10 = 2.0

Burn-down 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.