Project Planning Phase

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

Date	22 October 2022
Team ID	PNT2022TMID38776
Project Name	Project - Emerging Methods for Early Detection of Forest Fires
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	Image Processing	USN-1	Processing the image to find the fire is detected or not.	10	Medium	Vishwanadhani G Chitra S Preetha R Sowmiya M
Sprint-1		USN-2	The output would have to give high accuracy.	20	High	Vishwanadhani G Chitra S Preetha R Sowmiya M
Sprint-2	Video Processing	USN-3	The drone videos will be split into frames to detect the fire.	30	High	Vishwanadhani G Chitra S Preetha R Sowmiya M
Sprint-3	Alerting	USN-4	After the fire is detected the alert message have to be sent.	20	High	Vishwanadhani G Chitra S Preetha R Sowmiya M

Sprint-4	Location tracking	USN-5	The exact location of the drone will be predicted and sent along with the alert message.	20	High	Vishwanadhani G Chitra S Preetha R Sowmiya M

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	7 Days	23 Oct 2022	29 Oct 2022	30	29 Oct 2022
Sprint-2	20	7 Days	30 Oct 2022	05 Nov 2022	20	05 Nov 2022
Sprint-3	20	7 Days	06 Nov 2022	12 Nov 2022	20	12 Nov 2022
Sprint-4	20	7 Days	13 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)

$$AV = \text{Sprint duration} / \text{Velocity}$$
$$= 20/7 = 3$$

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.

Burndown Chart