EMERGING METHODS FOR THE EARLY DETECTION OF FOREST FIRES

PROJECT PLANNING PHASE

SPRINT DELIVERY PLAN

Date	10 October 2022
Team ID	PNT2022TMID07050
Project Name	Emerging Methods for Early Detection of Forest Fires
Maximum Marks	8 Marks

Product Backlog, Sprint Schedule, and Estimation

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 detectedor not.	1	Medium	1.Devi Sravanti 2.Esther 3.Divya Sri 4.Akshara

Sprint-1		USN-2	The output would have to give high accuracy.	2	High	1.Devi Sravanti 2.Esther 3.Divya Sri 4.Akshara
Sprint-2	Video Processing	USN-3	The drone videos will be split into frames todetect the fire.	3	High	1.Devi Sravanti 2.Esther 3.Divya Sri 4.Akshara
Sprint-3	Alerting	USN-4	After the fire is detected the alert message haveto be sent.	2	High	1.Devi Sravanti 2.Esther 3.Divya Sri 4.Akshara

Sprint-4	Location tracking	USN-5	The exact location of the drone will be predicted and sent along with the alert message.	2	High	1.Devi Sravanti 2.Esther 3.Divya Sri 4.Akshara

Project Tracker, Velocity & Burndown Chart:

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	25 Oct 2022	30 Oct 2022	30	30 Oct 2022
Sprint-2	20	6 Days	1 Nov 2022	06 Nov 2022	20	06 Nov 2022
Sprint-3	20	6 Days	08 Nov 2022	13 Nov 2022	20	13 Nov 2022
Sprint-4	20	6 Days	15 Nov 2022	20 Nov 2022	20	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 now calculate the team's average velocity (AV) periteration unit (story points per day)

$$AV = \text{Sprint duration} / \text{Velocity}$$
$$= 20/6 = 3$$