

Project Planning Phase
Product Backlog, Sprint Planning, Stories, Story points

Date	10 November 2022
Team ID	PNT2022TMID07671
Project Name	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	Registration	USN-1	As a user, I will be provided with pre-determined user ID and password for that particular forest camp	10	High	S.Sailesh Kumar
Sprint-1		USN-2	As a user, I will be provided access to the alert information system	10	medium	
Sprint-2		USN-3	The input video will be converted into frames and image preprocessing will be done	20	Low	K.Vinoth Kumar
Sprint-3	Monitoring	USN-4	Constant monitoring will be enabled for the detection of forest fire	20	Medium	M.Vaira Muthu
Sprint-4	Alert System	USN-5	Once the pattern of fire is detected an alert signal will be enabled and notification will be intimated	20	High	S.P.Sam Manova h Ark

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	28 Oct 2022	1 Nov 2022	20	1 Nov 2022
Sprint-2	20	6 Days	1 Nov 2022	6 Nov 2022	30	31 Oct 2022
Sprint-3	20	6 Days	6 Nov 2022	11 Nov 2022	49	05 Nov 2022
Sprint-4	20	6 Days	11 Nov 2022	16 Nov 2022	50	06 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)

$$AV = \frac{\text{sprint duration}}{\text{velocity}} = \frac{20}{10} = 2$$

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.

