

Project Planning Phase

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

Date	25 October 2022
Team ID	PNT2022TMID44068
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.	1	Medium	Kailash S Srikrishnan P Chandru M Kowshik R
Sprint-1		USN-2	The output would have to give high accuracy.	2	High	Kailash S Srikrishnan P Chandru M Kowshik R
Sprint-2	Video Processing	USN-3	The videos will be split into frames to detect the fire.	3	High	Kailash S Srikrishnan P Chandru M Kowshik R
Sprint-3	Alerting	USN-4	After the fire is detected the alert message have to be sent.	2	High	Kailash S Srikrishnan P Chandru M Kowshik R

Sprint-4	Location tracking	USN-5	The exact location of the fire will be predicted and sent along with the alert message.	2	High	Kailash S Srikrishnan P Chandru M Kowshik R
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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	30	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	05 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	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)

$$AV = \text{Sprint duration} / \text{Velocity}$$

$$= 20 / 6 = 3$$