

## Project Planning Phase

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

Date	31 October 2022
Team ID	PNT2022TMID14164
Project Name	Emerging Methods for EarlyDetection 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 detectedor not.	10	Medium	Shyam Sundar V Nestor KevinRaj J Nithish Kumar S Rajan Rahul G Sanjay K
Sprint-1		USN-2	The output would have to give high accuracy.	20	High	Shyam Sundar V Nestor KevinRaj J Nithish Kumar S Rajan Rahul G Sanjay K
Sprint-2	Video Processing	USN-3	The drone videos will be split into frames todetect the fire.	30	High	Shyam Sundar V Nestor KevinRaj J Nithish Kumar S Rajan Rahul G Sanjay K
Sprint-3	Alerting	USN-4	After the fire is detected the alert message haveto be sent .	20	High	Shyam Sundar V Nestor KevinRaj J Nithish Kumar S Rajan Rahul G Sanjay K
Sprint-4	Location tracking	USN-5	The exact location of the drone will be predictedand sent along with the alert message.	20	High	Shyam Sundar V Nestor KevinRaj J Nithish Kumar S Rajan Rahul G Sanjay K

### 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)

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

#### 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

