Project Planning Phase

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

Date	22 October 2022
Team ID	PNT2022TMID17719
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	Abirami Bharatha Sree Navenaa Aisweryaa
Sprint-1		USN-2	The output would have to give high accuracy.	20	High	Abirami Bharatha Sree Navenaa Aisweryaa
Sprint-2	Video Processing	USN-3	The drone videos will be split into frames to detect the fire.	30	High	Abirami Bharatha Sree Navenaa Aisweryaa
Sprint-3	Alerting	USN-4	After the fire is detected the alert message have to be sent .	20	High	Abirami Bharatha Sree Navenaa Aisweryaa
Sprint-4	Location tracking	USN-5	The exact location of the drone will be predicted and sent along with the alert message.	20	High	Abirami Bharatha Sree Navenaa Aisweryaa

Project Tracker, Velocity & Burndown Chart: (4 Marks)

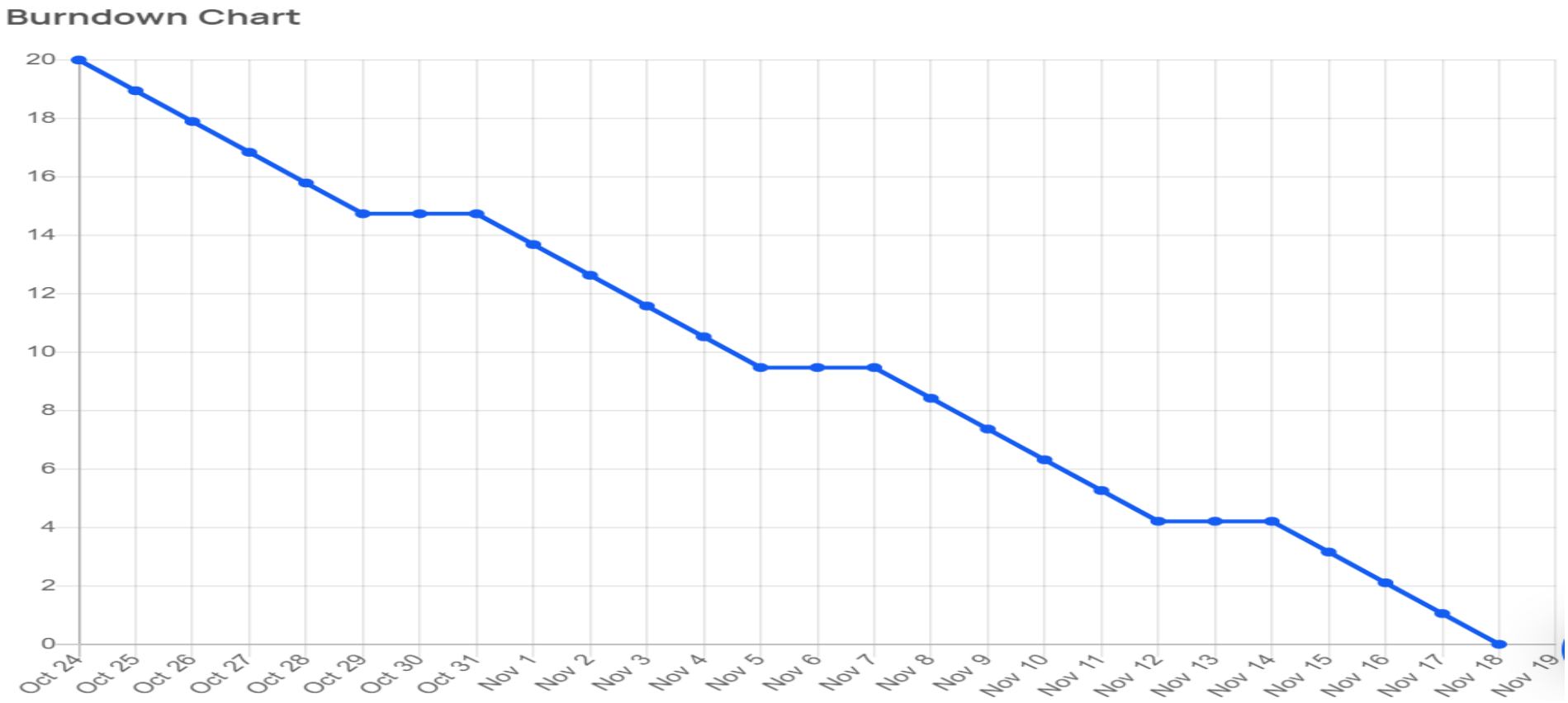
Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	20	6 Days	24 Oct 2022	29 Oct 2022	30	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	05 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	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)

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

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
20
18
16
14
12
10
8
6
4
2
0
Oct 24
Oct 25
Oct 26
Oct 27
Oct 28
Oct 29
Oct 30
Oct 31
Nov 1
Nov 2
Nov 3
Nov 4
Nov 5
Nov 6
Nov 7
Nov 8
Nov 9
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Nov 16
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Nov 19