Project Planning Phase

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

Date	30 October 2022
Team ID	PNT2022TMID41411
Project Name	EMERGING METHODS
-	FOR EARLY
	DETECTION OF
	FOREST FIRE

Product Backlog, Sprint Schedule, and Estimation

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	DATA COLLECTION	USN-1	Data collected by sensors aboard orbiting satellites, carried aboard aircraft, or installedon the ground provide a wealth of data that can be used to assess conditions before a burn and track the movement of a wildfire innear real-time.	10	High	All members
Sprint-1	IMAGE PREPROCESSING	USN-2	Image processing- Image processing technique automatically detect forest fires around the world by using infrared(IR) imagessourced from satellites and CNN used for image recognition and tasks that involve the processing of pixel data.	7	Medium	All members

Sprint-2	TRAINING	USN-3	The model is	10	high	
	AND		trained for			All members
	TESTING		detecting the fire			
			by training with			
			real time work			
			and the testing is			
			done according			
			the accuracy of			
			the model			

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	REVIEWING THEMODEL	USN-4	The main task is to check that the model is efficient to work in real time to ensure there isno error in the model	7	Medium	All members
Sprint-4	IMPLEMENTATION	USN-5	After completing every step the model is implemented on the forest and the quick responses is collected from forest organization	10	High	All members

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	24 Oct 2022	29 Oct 2022	8	01 Nov 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	7	08 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	8	15 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	7	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 calculate the team's average velocity (AV) per iteration unit (story points per day)

$$AV = \frac{sprint\ duration}{velocity} = 7/10 = 0.7$$

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 suchas Scrum. However, burn down charts can be applied to any project containing measurable progress over time.

