## Project Planning Phase

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

Date	17 NOVEMBER 2022
Team ID	PNT2022TMID38822
Project Name	Emerging Methods for Early Detection of Forest Fires

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Use the below template to create product backlog and sprint schedule

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	20	High	Mohamed Lahfir M S Nithyapriyaa V Pavithra Shri S Ram Yokash T
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application usage.	20	High	Mohamed Lahfir M S Nithyapriyaa V Pavithra Shri S Ram Yokash T

Sprint-2	Input	USN-3	Whenever the fire is detected, the information is given to the database.	20	High	Mohamed Lahfir M S Nithyapriyaa V Pavithra Shri S Ram Yokash T
Sprint-2		USN-4	When it is the wildfire then the alarming system is activated.	20	High	Mohamed Lahfir M S Nithyapriyaa V Pavithra Shri S Ram Yokash T
Sprint-3	Output	USN-5	And the alarm also sent to the corresponding departments and made them know that the wildfire is erupted.	20	High	Mohamed Lahfir M S Nithyapriyaa V Pavithra Shri S Ram Yokash T
Sprint-4	Action	USN-6	Required actions will be taken in order to control erupted wildfire by reaching as early as possible to the destination with the help of detecting systems.	20	High	Mohamed Lahfir M S Nithyapriyaa V Pavithra Shri S Ram Yokash T

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	22 July 2022	28 July 2022	20	28 July 2022
Sprint-2	20	6 Days	21 Augt2022	27 Aug 2022	20	27 Aug 2022

Project Tracker, Velocity & Burn down Chart: (4 Marks) Project Tracker:

Sprint-3	20	6 Days	26 Oct 2022	31 Aug 2022	20	31 Oct 2022
Sprint-4	20	6 Days	11 Nov 2022	17 Nov 2022	20	17 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)

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

Average velocity of sprint-1: AV = 17/8 = 2.125Average velocity of sprint-2: AV = 11/4 = 2.75Average velocity of sprint-3: AV = 22/5 = 5.5Average velocity of sprint-4: AV = 15/4 = 3.75

## Burn down 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.

