# Project Planning Phase

## Product Backlog, Sprint Planning, Stories, Story points

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|---|---|
| **Date** | 10 November 2022 |
| **Team ID** | **PNT2022TMID03090** |
| **Project Name** | **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 | Registration | USN-1 | As a user, I will be provided with pre-determined user ID and password for that particular forest camp | 10 | High | HARI SHRUTHI TK |
| Sprint-1 | | USN-2 | As a user, I will be provided access to the alert information system | 10 | medium | |
| Sprint-2 | | USN-3 | The input video will be converted into frames and image preprocessing will be done | 20 | Low | HARI PRIYA V T |
| Sprint-3 | Monitoring | USN-4 | Constant monitoring will be enabled for the detection of forest fire | 20 | Medium | GOKUL RAJR |
| Sprint-4 | Alert System | USN-5 | Once the pattern of fire is detected an alert signal will be enabled and notification will be intimated | 20 | High | HARI PRASATH AS |

## 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 | 28 Oct 2022 | 1 Nov 2022 | 20 | 1 Nov 2022 |
| Sprint-2 | 20 | 6 Days | 1 Nov 2022 | 6 Nov 2022 | 30 | 31 Oct 2022 |
| Sprint-3 | 20 | 6 Days | 6 Nov 2022 | 11 Nov 2022 | 49 | 05 Nov 2022 |
| Sprint-4 | 20 | 6 Days | 11 Nov 2022 | 16 Nov 2022 | 50 | 06 Nov 2022 |

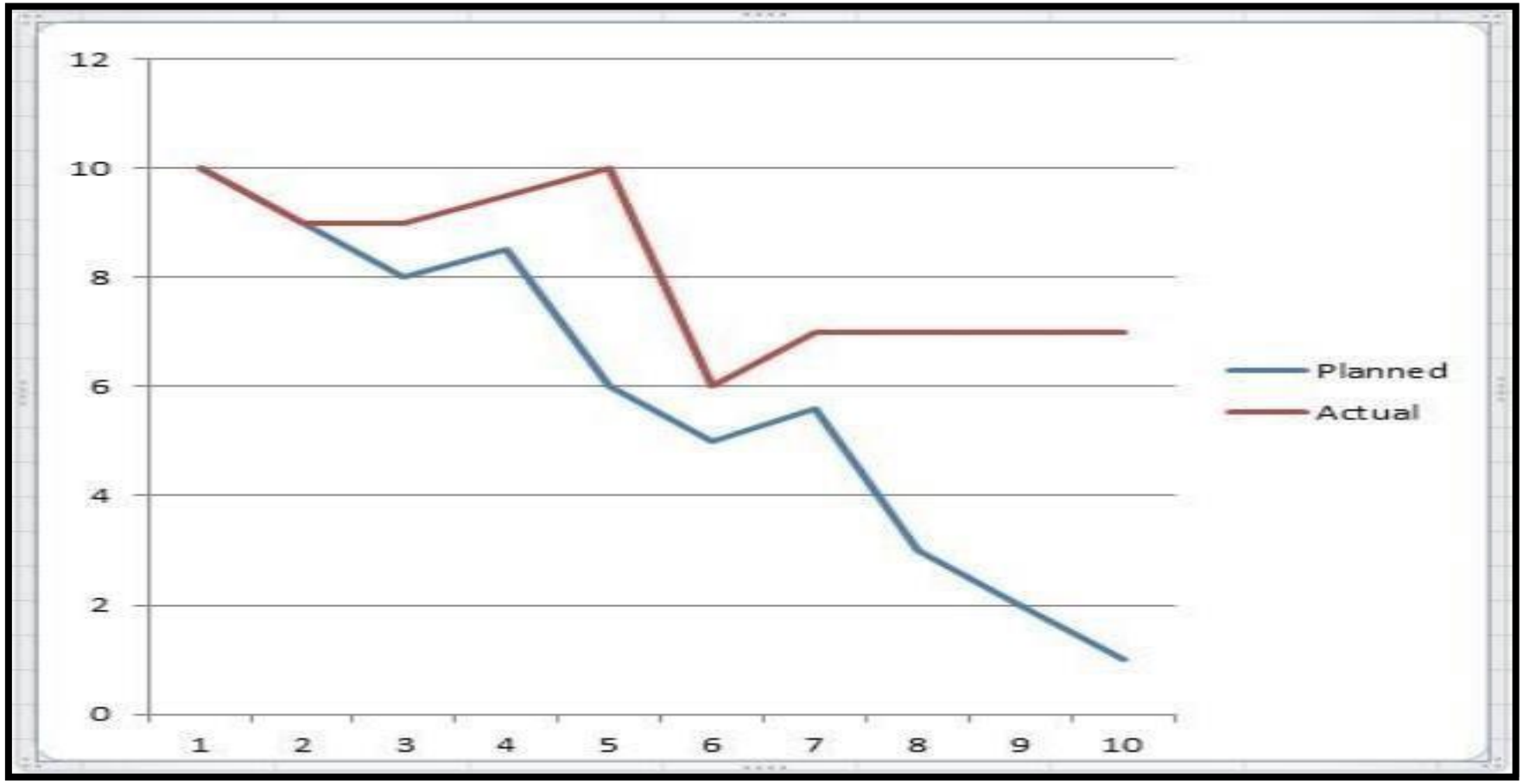
**Velocity:**

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)

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

## 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.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