**Project Planning Phase**

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

|  |  |
| --- | --- |
| Date | 22 October 2022 |
| Team ID | PNT2022TMID43466 |
| 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 | Image Processing | USN-1 | Processing the image to find the fire is detected or not. | 10 | Medium | Dharshini Priya s  Maruthi Vara Prasad  Bramalatha S  Godson VJ |
| Sprint-1 |  | USN-2 | The output would have to give high accuracy. | 20 | High | Dharshini Priya s  Maruthi Vara Prasad  Bramalatha S  Godson VJ |
| Sprint-2 | Video Processing | USN-3 | The drone videos will be split into frames to detect the fire. | 30 | High | Dharshini Priya s  Maruthi Vara Prasad  Bramalatha S  Godson VJ |
| Sprint-3 | Alerting | USN-4 | After the fire is detected the alert message have to be sent . | 20 | High | Dharshini Priya s  Maruthi Vara Prasad  Bramalatha S  Godson VJ |
| Sprint-4 | Location tracking | USN-5 | The exact location of the drone will be predicted and sent along with the alert message. | 20 | High | Dharshini Priya s  Maruthi Vara Prasad  Bramalatha S  Godson VJ |

**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=Sprint duration/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](https://www.visual-paradigm.com/scrum/what-is-agile-software-development/) methodologies such as [Scrum](https://www.visual-paradigm.com/scrum/scrum-in-3-minutes/). However, burn down charts can be applied to any project containing measurable progress over time.

