EMERGING METHODS FOR THE EARLY DETECTION OF FOREST FIRES

PROJECT PLANNING PHASE SPRINT DELIVERY PLAN

|  |  |
| --- | --- |
| Date | 30 October 2022 |
| Team ID | PNT2022TMID07051 |
| Project Name | Emerging Methods for Early  Detection of Forest Fires |
| Maximum Marks | 8 Marks |

# Product Backlog, Sprint Schedule, and Estimation

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sprint** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority y** | **Team Members** |
| Sprint-1 | Image Processi ng | USN-1 | Processing the image to find the fire is detected or not. | 1 | Medium m | 1.Dharani  2.Logavarshini  3.Arthi  4.Anisha Singh |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sprint-1 |  | USN-2 | The output would have to give high accuracy. | 2 | High | 1.Dharani  2.Logavarshini  3.Arthi  4.Anisha Singh |
| Sprint-2 | Video Processi ng | USN-3 | The drone videos will be split into frames todetect the fire. | 3 | High | 1.Dharani  2.Logavarshini  3.Arthi  4.Anisha Singh |
| Sprint-3 | Alerting | USN-4 | After the fire is detected the alert message haveto be sent. | 2 | High | 1.Dharani  2.Logavarshini  3.Arthi  4.Anisha Singh |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sprint-4 | Locatio n trackin g | USN-5 | The exact location of the drone will be predictedand sent along with the alert message. | 2 | High | 1.Dharani  2.Logavarshini  3.Arthi  4.Anisha Singh |

**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 | 7 Days | 25 Oct 2022 | 01 Nov 2022 | 30 | 01 Nov2022 |
| Sprint-2 | 20 | 7 Days | 1 Nov 2022 | 06 Nov 2022 | 20 | 06 Nov 2022 |
| Sprint-3 | 20 | 7 Days | 03 Nov 2022 | 09 Nov 2022 | 20 | 09 Nov 2022 |
| Sprint-4 | 20 | 7 Days | 09 Nov 2022 | 11 Nov 2022 | 20 | 11Nov 2022 |

# Velocity:

Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let’s now calculate the team’s average velocity (AV) periteration unit (story points per day)

# AV=Sprint duration/Velocity

**=20/7=2.8**