**Project Planning Phase**

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

|  |  |
| --- | --- |
| Date | 06 November 2022 |
| Team ID | PNT2022TMID50335 |
| Project Name | Project –Emerging Methods For Early Detection Of Forest Fire |
| Maximum Marks | 8 Marks |

**Product Backlog, Sprint Schedule, and Estimation :**

| **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 | 1 | Medium | M.Azhaguselvi  R.Sundari,  S.Suryaprabha  M.Umamaheshwari |
| Sprint-1 |  | USN-2 | The output would have to give high accuracy | 2 | High | M.Azhaguselvi  R.Sundari,  S.Suryaprabha  M.Umamaheshwari |
| Sprint-2 | Video Processing | USN-3 | The videos will be split into frames todetect the fire | 3 | High | M.Azhaguselvi  R.Sundari,  S.Suryaprabha  M.Umamaheshwari |
| Sprint-3 | Alerting | USN-4 | After the fire is detected the alert message have to be sent. | 2 | High | M.Azhaguselvi  R.Sundari,  S.Suryaprabha  M.Umamaheshwari |
| Sprint-4 | Locating  Tracking | USN-5 | The exact location of the fire will be predicted and sent along with the alert message. | 2 | High | M.Azhaguselvi  R.Sundari,  S.Suryaprabha  M.Umamaheshwari |

**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**