# Project Planning Phase

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

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|---|---|
| Date | 22 October 2022 |
| Team ID | PNT2022TMID38776 |
| Project Name | Project - 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. | 1 | Medium | Vishwanadhani G<br>Chitra S<br>Preetha R<br>Sowmiya M |
| Sprint-1 | | USN-2 | The output would have to give high accuracy. | 2 | High | Vishwanadhani G<br>Chitra S<br>Preetha R<br>Sowmiya M |
| Sprint-2 | Video Processing | USN-3 | The drone videos will be split into frames to detect the fire. | 3 | High | Vishwanadhani G<br>Chitra S<br>Preetha R<br>Sowmiya M |
| Sprint-3 | Alerting | USN-4 | After the fire is detected the alert message have to be sent. | 2 | High | Vishwanadhani G<br>Chitra S<br>Preetha R<br>Sowmiya M |

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|---|---|---|---|---|---|---|
| Sprint-4 | Location tracking | USN-5 | The exact location of the drone will be predicted and sent along with the alert message. | 2 | High | Vishwanadhani G<br>Chitra S<br>Preetha R<br>Sowmiya M |

**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)

$$AV = \text{Sprint duration} / \text{Velocity}$$
$$= 20/6 = 3$$