**Project Planning Phase**

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

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| --- | --- |
| Date | 22 October 2022 |
| Team ID | PNT2022TMID51669 |
| Project Name | Emerging methods for early detection of forest fire. |
| Maximum Marks | 8 Marks |

**Product Backlog, Sprint Schedule, and Estimation (4 Marks)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Sprint** | **User Type** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** |
| Sprint-1 | Customer (forest officer) | Registration | USN-1 | As a user, I can register for viewing the video from camera by loggin in using the gmail. | 2 | High | sherjin raj,  shabin |
| Sprint-1 |  |  | USN-2 | As a user, I will receive confirmation email once I have registered for viewing the model. | 1 | Low | Desmond samuel,  Anto shine |
| Sprint-2 |  | open cv | USN-3 | As the open cv will help to view the images or video feeded. | 2 | High | Adarsh |
| Sprint-3 |  |  | USN-6 | The AI can view the images to check for fire. | 2 | Medium | Sherjin Raj,  Adarsh |
| Sprint-1 | artificial intelligence | video analysis | USN-7 | In this task, the user perform video analysis to get the prediction for the input frames. | 2 | High | Desmond samuel |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Sprint** | **User Type** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** |
| Sprint-4 | Alert message | sound box or alarm system | USN-8 | In this step the user gets the alert message once the AI predict whether the fire is present or not.And sends a sound alert to the forest officer or to the public. | 2 | Medium | Adarsh,  sherjin Raj |
| Sprint-2 | prediction | AI | USN-9 | In this step the AI make use of our saved model to do predictions | 1 | High | Anto shine |
| Sprint-1 | fire detection | IBM cloud | USN-10 | As a tracker the fire data can be collected from the images from cloud database. | 2 | Medium | Desmond samuel,  shabin |
| Sprint-3 | Train the model | IBM DB2 | USN-11 | this stepis to pass the data to the model for the training process to commence, a process that is completed by iterating on the training data. | 2 | Medium | Anto shine,  Shabin |

**Project Tracker, Velocity & Burndown Chart: (4 Marks)**

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| --- | --- | --- | --- | --- | --- | --- |
| **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 | 10 | 6 Days | 24 Oct 2022 | 29 Oct 2022 | 10 | 29 Oct 2022 |
| Sprint-2 | 4 | 6 Days | 31 Oct 2022 | 05 Nov 2022 | 4 | 05 Nov 2022 |
| Sprint-3 | 3 | 6 Days | 07 Nov 2022 | 12 Nov 2022 | 3 | 12 Nov 2022 |
| Sprint-4 | 3 | 6 Days | 14 Nov 2022 | 19 Nov 2022 | 3 | 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)



**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.

