**Project Planning Phase**

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

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| --- | --- |
| Date | 13 November 2022 |
| Team ID | PNT2022TMID17141 |
| Project Name | EMERGING METHODS FOR EARLY DETECTION OF FOREST FIRES |
| Maximum Marks | 8 Marks |

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

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| **Sprint** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** |
| Sprint-2 | Registration | USN-1 | As a user, I can register for the application by entering my email, password, and confirming my password. | 3 | Medium | Mohamed Ashik.S, Jayasurya.P.M, Mohamed Imran.I, Karthikeyan.V.G |
| Sprint-2 |  | USN-2 | As a user, I will receive confirmation email once I have registered for the application | 2 | Low | Mohamed Ashik.S, Jayasurya.P.M, Mohamed Imran.I, Karthikeyan.V.G |
| Sprint-3 |  | USN-3 | As a user, I can register for the application through Facebook | 2 | Low | Mohamed Ashik.S, Jayasurya.P.M, Mohamed Imran.I, Karthikeyan.V.G |
| Sprint-3 |  | USN-4 | As a user, I can register for the application through Gmail | 3 | Medium | Mohamed Ashik.S, Jayasurya.P.M, Mohamed Imran.I, Karthikeyan.V.G |
| Sprint-2 | Login | USN-5 | As a user, I can log into the application by entering email & password | 3 | Medium | Mohamed Ashik.S, Jayasurya.P.M, Mohamed Imran.I, Karthikeyan.V.G |
| Sprint -1 | Dataset | USN-6 | The dataset is collected and pre-processed and split for training and testing. | 5 | High | Mohamed Ashik.S, Jayasurya.P.M, Mohamed Imran.I, Karthikeyan.V.G |
| Sprint -1 |  | USN-7 | The model is created and trained using test and train dataset. | 5 | High | Mohamed Ashik.S, Jayasurya.P.M, Mohamed Imran.I, Karthikeyan.V.G |

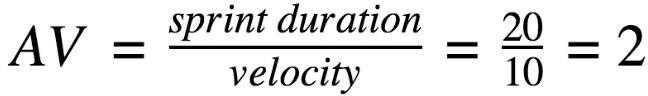
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| --- | --- | --- | --- | --- | --- | --- |
| **Sprint** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** |
| Sprint -1 | Detection | USN-8 | As a user, I am able to view accurate detection of forest fire in order to combat it | 5 | High | Mohamed Ashik.S, Jayasurya.P.M, Mohamed Imran.I, Karthikeyan.V.G |
| Sprint-1 | Alert | USN-9 | The user is notified when forest fire is detected. | 5 | High | Mohamed Ashik.S, Jayasurya.P.M, Mohamed Imran.I, Karthikeyan.V.G |
| Sprint-2 |  | USN-10 | An alarm is activated when forest fire is detected and all concerned authorities are notified. | 10 | High | Mohamed Ashik.S, Jayasurya.P.M, Mohamed Imran.I, Karthikeyan.V.G |
| Sprint-2 | Video processing | USN-11 | Real time video is used and converted to frames for detection of forest fire. | 5 | High | Mohamed Ashik.S, Jayasurya.P.M, Mohamed Imran.I, Karthikeyan.V.G |
| Sprint-3 | Chat bot | USN-12 | Chatbot is present to help users with queries | 5 | Medium | Mohamed Ashik.S, Jayasurya.P.M, Mohamed Imran.I, Karthikeyan.V.G |
| Sprint-3 | Cloud | USN-13 | The application is deployed through cloud | 10 | High | Mohamed Ashik.S, Jayasurya.P.M, Mohamed Imran.I, Karthikeyan.V.G |
| Sprint-4 | Dashboard | USN-14 | As a user the dashboard is quick and easy to navigate. | 5 | High | Mohamed Ashik.S, Jayasurya.P.M, Mohamed Imran.I, Karthikeyan.V.G |
| Sprint-4 | Testing | USN-15 | The system is thoroughly tested and unit testing  ,integration testing and system testing is performed | 10 | High | Mohamed Ashik.S, Jayasurya.P.M, Mohamed Imran.I, Karthikeyan.V.G |
| Sprint-4 | Visualisation | USN-16 | The output is shown through simple visualisation | 5 | Medium | Mohamed Ashik.S, Jayasurya.P.M, Mohamed Imran.I, Karthikeyan.V.G |

**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 | 20 | 6 Days | 24 Oct 2022 | 29 Oct 2022 | 20 | 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)



**Burndown Chart:**

