

PROJECT PLANNING PHASE

SPRINT DELIVERY PLAN

TEAM ID

: PNT2022TMID53546

PROJECT NAME

: Emerging Methods for Early Detection of Forest Fires

Product Backlog, Sprint Schedule, and Estimation

| Sprint | Functional Requirement (Epic) | User Story Number | User Story/Task | Story points | Priority | Team Members |
|----------|-------------------------------|-------------------|--|--------------|----------|---|
| Sprint 1 | Registration | USN-1 | As a user, I can register for the application by entering my email, password, and confirming my password. | 20 | High | Aanant.V Charan.M Guhaneswar.S Harishkumar.G.K |
| Sprint 1 | | USN-2 | As a user, I will receive confirmation email once I have registered for the application usage. | 20 | High | Aanant.V Charan.M Guhaneswar.S Harishkumar.G.K |
| Sprint 2 | Input | USN-3 | Whenever the fire is detected, the information is given to the database. | 20 | High | Aanant.V Charan.M Guhaneswar.S Harishkumar.G.K |
| Sprint 2 | | USN-4 | When it is the wildfire then the alarming system is activated. | 20 | High | Aanant.V Charan.M Guhaneswar.S Harishkumar.G.K |
| Sprint 3 | Output | USN-5 | And the alarm also sent to the corresponding departments and made them know that the wildfire is erupted. | 20 | High | Aanant.V Charan.M Guhaneswar.S Harishkumar.G.K |
| Sprint 4 | Action | USN-6 | Required actions will be taken in order to controlled erupted wildfire by reaching as early as possible to the destination with the help of detecting systems. | 20 | High | Aanant.V Charan.M Guhaneswar.S Harishkumar.G.K |

Project Tracker, Velocity & Burndown Chart:

| Sprint | Total Story Points | Duration | Sprint Start Date | Sprint End Date(planning) | Story Point Completed (as on Planned End Date) | Sprint Release Date (Actual) |
|---------------|---------------------------|-----------------|--------------------------|----------------------------------|---|-------------------------------------|
| 1 | 20 | 6 Days | 24 Oct 2022 | 29 Oct 2022 | 20 | 29 Oct 2022 |
| 2 | 20 | 6 Days | 31 Oct 2022 | 05 Nov 2022 | 20 | 05 Nov 2022 |
| 3 | 20 | 6 Days | 12 Nov 2022 | 12 Nov 2022 | 20 | 12 Nov 2022 |
| 4 | 20 | 6 Days | 19 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)

$$AV = \frac{\textit{sprint duration}}{\textit{velocity}} = \frac{20}{10} = 2$$