

Project Planning Phase

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

| | |
|--------------|--|
| Date | 24 October 2022 |
| Team ID | PNT2022TMID18694 |
| Project Name | Emerging Methods for Early Detection of Forest Fires |

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

Use the below template to create product backlog and sprint schedule

| 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 | SNEGA T BAVADHARINI E PRIYA DHARSHINI S VENMATHI G |
| | | USN-2 | As a user, I will receive confirmation email once I have registered for the application usage. | 20 | High | SNEGA T BAVADHARINI E PRIYA DHARSHINI S VENMATHI G |
| Sprint-2 | Input | USN-3 | Whenever the fire is detected, the information is given to the database. | 20 | High | SNEGA T BAVADHARINI E PRIYA DHARSHINI S VENMATHI G |

| | | | | | | |
|----------|--------|-------|---|----|------|---|
| Sprint-2 | | USN-4 | When it is the wildfire then the alarming system is activated. | 20 | High | SNEGA T BAVADHARINI E PRIYA DHARSHINI S VENMATHI G |
| 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 | SNEGA T BAVADHARINI E PRIYA DHARSHINI S VENMATHI G |
| Sprint-4 | Action | USN-6 | Required actions will be taken in order to control erupted wildfire by reaching as early as possible to the destination with the help of detecting systems. | 20 | High | SNEGA T BAVADHARINI E PRIYA DHARSHINI S VENMATHI G |

Project Tracker, Velocity & Burn down Chart: (4 Marks) Project Tracker:

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)

| 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 |

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

Burn down chart:

A burn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as scrum. However, burn down charts can be applied to any project containing measurable progress over time.

