

## Project Planning Phase

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

Date	22 October 2022
Team ID	PNT2022TMID32964
Project Name	Emerging Methods for Early Detection of Forest Fires
Maximum Marks	8 Marks

#### 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.	10	High	SUDHARSAN S, VENKADA SUBRAMANIAN D
Sprint-1	Registration	USN-2	As a user, I will receive confirmation email once I have registered for the application	5	High	SUDHARSAN S, VENKADA SUBRAMANIAN D
Sprint-1	Registration	USN-3	As a user, I can register for the application through Gmail	5	Medium	SUDHARSAN S, VENKADA SUBRAMANIAN D

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2	Login	USN-4	As a user, I can log into the application by entering email & password	20	High	VEERENTHIRAN S, VINOTH KUMAR M
Sprint-3	Dashboard	USN-5	As a user, I can specify the location to be monitored.	20	High	VINOTH KUMAR M, SUDHARSAN S
Sprint-4	Notification	USN-6	As a user, I should be notified through mail in case of fire.	5	Medium	VENKADA SUBRAMANIAN D, VEERENTHIRAN S
Sprint-4	Notification	USN-7	As a user, I should be notified through SMS in case of fire.	15	High	VENKADA SUBRAMANIAN D, VEERENTHIRAN S

#### 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	20	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022		

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-3	20	6 Days	07 Nov 2022	12 Nov 2022		
Sprint-4	20	6 Days	14 Nov 2022	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)

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

$$AV = 20/6 = 3.33$$

### Burndown Chart:

A burndown 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 .

