

## Project Planning Phase

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

Team ID	PNT2022TMID51836
Project Name	Project - <i>Emerging Methods for Early Detection of Forest Fires</i>
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.	20	High	JOTHI LAKSHMI.P MONIKA.K SUMATHI.D SHANMUGA PRIYA.G
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application usage.	20	High	JOTHI LAKSHMI.P MONIKA.K SUMATHI.D SHANMUGA PRIYA.G
Sprint-2	Input	USN-3	Whenever the fire is detected, the information is given to the database.	20	High	JOTHI LAKSHMI.P MONIKA.K SUMATHI.D SHANMUGA PRIYA.G
Sprint-2		USN-4	When it is the wildfire then the alarming system is activated.	20	High	JOTHI LAKSHMI.P MONIKA.K

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
						SUMATHI.D SHANMUGA PRIYA.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	JOTHI LAKSHMI.P MONIKA.K SUMATHI.D SHANMUGA PRIYA.G
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	JOTHI LAKSHMI.P MONIKA.K SUMATHI.D SHANMUGA PRIYA.G

#### 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	20	05 Nov 2022
Sprint-3	20	6 Days	12 Nov 2022	12 Nov 2022	20	12 Nov 2022
Sprint-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)

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