Project Planning Phase

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

Date	20 NOVEMBER 2022
Team ID	PNT2022TMID29323
Project Name	Emerging Methods for Early Detection of Forest Fires

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

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	Karthikeyan .T Kirthick .S Manikandan .P
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	20	High	Gowtham Karthikeyan .T Kirthick .S

Sprint-2	Input	USN-3	Whenever the fire is detected, the information is given to the database.	20	High	Kirthick .S Manikandan .P Gowtham
Sprint-2		USN-4	When it is the wildfire then the alarming system is activated.	20	High	Karthikeyan .T Manikandan .P Gowtham
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	Karthikeyan .T Kirthick .S Gowtham Manikandan.P
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	Karthikeyan T Manikandan .P Gowtham

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	5 Days	22 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint-2	20	6 Days	01 Nov2022	05 Nov 2022	20	05 Nov 2022
Sprint-3	20	6 Days	10 Nov 2022	16 Nov 2022	20	16 Nov 2022
Sprint-4	20	4 Days	16 Nov 2022	20 Nov 2022	20	20 Nov 2022

Project Tracker, Velocity & Burndown Chart: (4 Marks) **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)

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

Burndown 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.