Project Planning Phase

Sprint Delivery Plan

Date	14 November 2022
Team ID	PNT2022TMID33679
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	Elamathi T Kusuma R Aruna D Boopathidass
Sprint-1	Login	USN-2	As a user, I will receive confirmation email once I have registered for the application.	20	High	Elamathi T Kusuma R Aruna D Boopathidass
Sprint-2	Input	USN-3	Whenever the fire is detected, the information is given to the database by permanent monitoring, data collection and processing.	20	High	Elamathi T Kusuma R Aruna D Boopathidass

Sprint-2	Action	USN-4	When it is the wildfire then the alarming system is activated.	20	High	Elamathi T Kusuma R Aruna D Boopathidass
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	Elamathi T Kusuma R Aruna D Boopathidass
Sprint-4	Action	USN-6	Required actions will be taken to give potential fire alert in order to control erupted wildfire by reaching as early as possible to the destination with the help of detecting systems.	20	High	Elamathi T Kusuma R Aruna D Boopathidass

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

Project Tracker:

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

Velocity:

The velocity of the team is 20 (points per sprint). The team's average velocity (AV) per iteration unit (story points per day)

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

Average velocity of sprint-1= 17/8 = 2.125
Average velocity of sprint-2 = 11/4 = 2.75
Average velocity of sprint-3 = 22/5 = 5.5
Average velocity of sprint-4 = 15/4 = 3.75

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.