Project Planning Phase

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

Date	19 November 2022
Team ID	PNT2022TMID00383
Project Name	Industry-specific intelligent fire management system
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	Prio rity	Team Members
Sprint-1	Gas temperature measurement	USN-1	As a user, I need to know the temperature of the Industry where I work.	6	High	Tharun Prasath J
		USN-2	As a user, I need to know the gas pressure around our surrounding.	7	High	Srihari M S
		USN-3	As a user, I need to know the status of exhaust fan and sprinkler.	7	High	Uppuliappan M
Sprint-2	Monitoring parameters	USN-4	In industry, sensor sense the flame and sprinkler.	10	High	Vignesh Karuppasamy D M
		USN-5	If the sensor detected the flame, next step is extinguishing the flame with the help of Sprinkler and Exhaust to clear smoke.	10	High	Uppuliappan M

Sprint-3	Cloud and Node Red	USN-6	All the values are stored in the cloud database. The flow is setted in node red server and the web app is been set to monitor the status of the fire.	20	High	Tharun Prasath J
Sprint-4	App UI and Operation	USN-7	The app User Interface should be clean and user friendly.	10	High	Srihari M S
		USN-8	It should have a simple login and user should receive alerts based on the fire system indication.	10	High	Uppuliappan M

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	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:

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)

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