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

Team ID	PNT2022TMID14209
Project Name	Industry-specific intelligent fire management system

Product Backlog, Sprint Schedule, and Estimation

Sprint	Functional Requirement	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.	2	High	Chandramohan S
Sprint-1	User Confirmation	USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	Aravind M
Sprint-1	Login	USN-3	As a user, I can log into the application by entering email & password	1	High	Kailesh K
Sprint-2	Sensor	USN-4	In industry, sensor sense the fire and smoke.	2	High	Karthick K

Sprint-2	Actuators	USN-5	If the sensor detected the fire, next step is extinguishing the fire with the help of Sprinkler.	2	High	Chandramohan S
Sprint-3	Cloud	USN-6	All the values are stored in the cloud database.	2	High	Aravind M
Sprint-4	Siren	USN-7	If the fire is detected, employee should Evacuate by the intimation by Siren/Buzzer.	2	High	Kailesh K
Sprint-4	Event management	USN-8	Notification message will be sent to the fire Department, proprietor.	2	High	Karthick K

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	31 Oct 2022

Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	07 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	14 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)

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