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

Date	18 October 2022
Team ID	PNT2022TMID43184
Project Name	Project – Gas leakage & Monitoring and Alerting Systems for Industries
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	Monitoring The Gas leakage	USN-1	The Industrialist have their own industries and it not a compulsory to work because they have workers to work for them. The workers are important for the industries and as well as the family members of the workers. Hence their health is very important and must be take care of the industries. And the industries must give assurance for those workers.	2	High	Pramod Gabriel Akshaya
Sprint-2	Avoiding the Disaster	USN-2	We can't predict the time of disaster hence the fire services must be ready and alert all the time	1	High	Pramod Gabriel Akshaya
Sprint-3	Detection of the Gas	USN-3	We have to monitor the gas 24/7 because it has high risk. The industries must have high quality pipes and proper maintenance service once in a month. The industries must take care of all the necessary processes to avoid the gas leakage	2	Low	Pramod Gabriel Akshaya
Sprint-4	The model is trained and tested by sample dataset.	USN-4	The programmer design the model to detect the gas leakage	2	Medium	Udhaya Sankar Vishnu Vikash

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-5	Warning Message	USN-5	Incase if the gas leakage occurs unavoidably the alert messages will be sent to every concerned user within a minute	1	High	Pramod Gabriel Akshaya

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)

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