Project Planning Phase

Date	31 October 2022
Team ID	PNT2022TMID14603
Project Name	Gas Leakage monitoring & Alerting system for Industries
Maximum Marks	8 Marks

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.	10	HIGH	TITIKSHA V
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	10	HIGH	NIRANJANA R
Sprint-1	Login	USN-3	As a user, I can log into the application by entering email & password	10	HIGH	SNEHA DHARSHINI R
Sprint-2	Input details	USN-4	As a user, I can set the threshold value	10	MEDIUM	SINDHU R
Sprint-2	safety alert prediction-1 (small gas content)	USN-5	As a user, I should get the indication through a red LED and a message should be sent..	20	HIGH	TITIKSHA V
sprint -3	safety alert prediction-2(high gas content)	USN-6	As a user, I should get message alert and alarm should get ON	20	HIGH	NIRANJANA R
sprint- 3	sensor value < threshold value	USN-7	As a user, I should get an indication through green LED.	10	HIGH	SNEHA DHARSHINI R
sprint -4	repeat the process for maintaining strict safety	USN - 8	As a user i can expect that the process should repeat once i give supply to the device for more security.	20	HIGH	SINDHU R

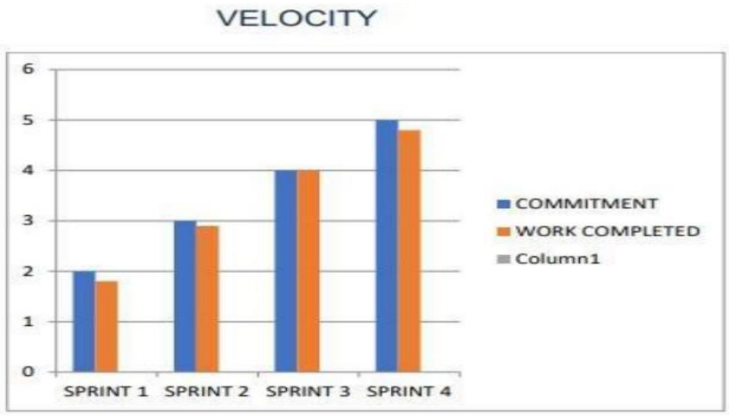
Project Tracker, Velocity & Burndown Chart: (4 Marks)

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	30	7 Days	1 NOV 2022	7 NOV2022		
Sprint-2	30	5 Days	8 NOVt 2022	12Nov 2022		
Sprint-3	30	3 Days	13Nov 2022	15 Nov 2022		
Sprint-4	20	4 Days	16 Nov 2022	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)

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



Burndown Chart: