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

Date	18 October 2022
Team ID	PNT2022TMID14029
Project Name	Gas Leakage Monitoring and Alerting System 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	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password	2	High	Mahalakshmi
Sprint-1	Registration	USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	Mahalakshmi
Sprint-2	Login	USN-3	As a user, I can register for the application through Gmail	2	Low	Monika M
Sprint-1	Registration	USN-5	As a user, I can log into the application by entering email & password	1	High	Monika M
Sprint -2	Dashboard	USN-1	As a user I can register for the application by Google	3	Low	Priyanka R
Sprint-3	Notification	USN-2	Using minimum time, we should be able to notify the owner or the authorised person	4	Low	Priyanka R
Sprint-1	Store data	USN-1	We need to continuously store location data into the database	3	Medium	Monika M
Sprint-4	Web UI	USN-3	The alert message will be sent to the pre-determined mail ids and phone number	3	Normal	Narenthra Kishore R S
Sprint-4	Physical Alert	USN-3	Toxic gas alert should be alerted to the person in the field so led alert and the sound alarm has been kept in the area nearby	4	High	Narenthra Kishore R S

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 Oct 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	12 Oct 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)

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

Burndown 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. However, burn down charts can be applied to any project containing measurable progress over time.