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

Date	18 October 2022
Team ID	PNT2022TMID19226
Project Name	Gas Leakage Monitoring & 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	Low	Karthikeyan C
Sprint-1	Registration	USN-2	As a user, I will receive confirmation email once I have registered for the application	3	Medium	Hariboobaalan P N
Sprint-1	Registration	USN-3	As a user, I can log into the application by entering email & password.	5	Medium	Kavin P
Sprint-1	Monitoring	USN-4	As a user, I will enable the supervisor to monitor the gas leakage system status.	10	High	Harithaa G
Sprint-2	Notification	USN-5	As a user, I can get SMS notification.	10	High	Harithaa G
Sprint-2	Notification	USN-6	As a user, I can get alarming alert about gas leakage.	10	High	Hariboobaalan P N
Sprint-3	Login	USN-7	As a user, I can sign up using Facebook login	2	Low	Karthikeyan C
Sprint-3	Login	USN-8	As a user, I can sign up using Google Login.	2	Low	Karthikeyan C
Sprint-3	Service Request	USN-9	As a user, I can request for service in case of any issue with the gas leakage monitoring system.	8	Medium	Kavin P
Sprint-3	Service Request	USN-10	As a user, I can request for scaling up the gas leakage monitoring system.	8	Medium	Kavin P

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-4	Monitoring	USN-11	As a user, I can have mobile application for gas leakage monitoring and alerting system.	10	High	Harithaa G
Sprint-4	Monitoring	USN-12	As a user, I must be able to send control commands to initiate measures in case of gas leakage.	10	High	Hariboobaalan P N

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 6-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).

$$AV = \frac{sprint\ duration}{velocity} = \frac{20}{6} = 3.33$$
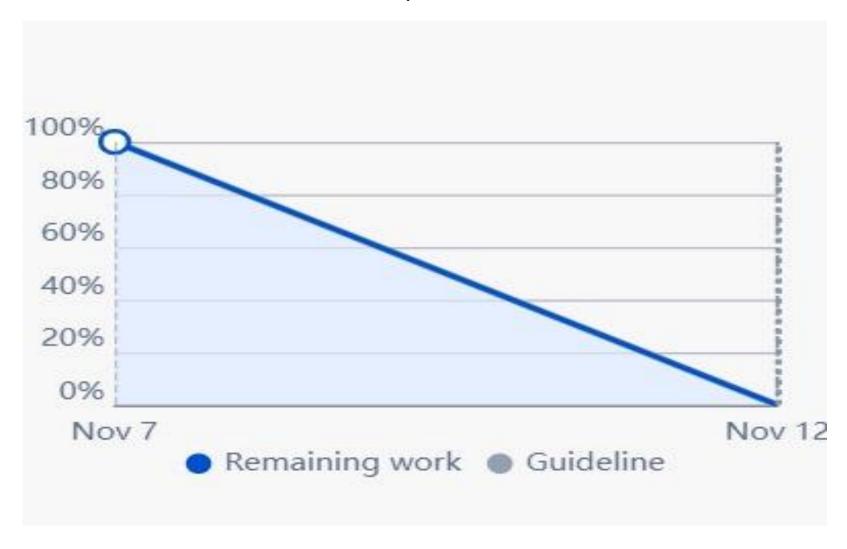
Burndown Chart:

Sprint 1

Sprint 2

Sprint 3

100%
80%
60%
40%
20%
0%

Nov 7   Nov 12

● Remaining work   ● Guideline

Sprint 4