

## Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID39853
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	S.R.Joyal prasanna
Sprint-1	Registration	USN-2	As a user, I will receive confirmation email once I have registered for the application	3	Medium	M.Deepak
Sprint-1	Registration	USN-3	As a user, I can log into the application by entering email & password.	5	Medium	T.A.Amarjith
Sprint-1	Monitoring	USN-4	As a user, I will enable the supervisor to monitor the gas leakage system status.	10	High	S.Arun kumar
Sprint-2	Notification	USN-5	As a user, I can get SMS notification.	10	High	S.Arun kumar
Sprint-2	Notification	USN-6	As a user, I can get alarming alert about gas leakage.	10	High	T.A.Amarjith
Sprint-3	Login	USN-7	As a user, I can sign up using Facebook login	2	Low	S.R.Joyal prasanna
Sprint-3	Login	USN-8	As a user, I can sign up using Google Login.	2	Low	S.R.Joyal prasanna
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	M.Deepak
Sprint-3	Service Request	USN-10	As a user, I can request for scaling up the gas leakage monitoring system.	8	Medium	T.A.Amarjith

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	S.Arun kumar
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	T.A.Amarjith

#### 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).

$$AV = \frac{\text{sprint duration}}{\text{velocity}} = \frac{20}{6} = 3.33$$

Burndown Chart:

Sprint 1

