

## Project Planning Phase

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

Date	27 October 2022
Team ID	PNT2022TMID08020
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.	3	High	Sharadh R Saranya M
Sprint-1	Confirmation	USN-2	As a user, I will receive confirmation email once I have registered for the application	3	High	Saranya M Sharadh R
Sprint-1	Authorize	USN-3	As a user, I will enable the supervisor to monitor the gas leakage system status	3	High	Vignesh K Pushpalatha J
Sprint-1	Login	USN-4	As a user, I can log into the application by entering email & password.	3	High	Pushpalatha J Vignesh k
Sprint-1	Monitor	USN-5	As a user, I can monitor the status of the gas leakage system.	3	High	Sharadh R Vignesh k
Sprint-2	Notification	USN-6	As a user, I can get (alarm system) alert about gas leakage.	2	Medium	Saranya M Pushpalatha J
Sprint-2	Notification	USN-7	As a user, I can get SMS notification & alarming alert about gas leakage	2	Medium	Sharadh R Pushpalatha J
Sprint-2	Notification	USN-8	As a user, I can get SMS notification about gas leakage	2	Medium	Vignesh K Saranya M

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Sign-Up	USN-9	As a user, I can sign-up using Facebook login.	1	Low	Sharadh R
Sprint-3	Sign-Up	USN-10	As a user, I can sign-up using Facebook login.	1	Low	Vignesh K
Sprint-3	Service Request	USN-11	As a user, I can request for service in case of any issue with gas leakage monitoring system	1	Low	Sharadh R Saranya M Vignesh K Pushpalatha J
Sprint-4	Increased service	USN-12	As a user, I can request for service in case of any issue with gas leakage monitoring system	1	Low	Sharadh R Saranya M Vignesh K Pushpalatha J

#### 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)

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

### 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.

