

## Project Planning Phase

### Project Planning Template (Product Backlog, Sprint Planning, Stories, Storypoints)

Date	26 October 2022
Team ID	PNT2022TMID33893
Project Name	Gas Leakage Monitoring and Alerting Systems
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	2	Low	Sajeetha Banu
Sprint-1	Registration	USN-2	As a user, I will enter the unique user id and gets confirmation once registered.	3	High	Saranya
Sprint-1	Login	USN-3	As a user, I adapt to logging into the system with credentials.	2	Low	Rohini
Sprint-1	Designation of Region	USN-4	As a user, I can collect the dataset to be monitored and analysed.	5	Medium	Saraswathy
Sprint-2	Features Of Design	USN-5	As a designer, I need sensors for detection to get added with the system.	6	High	Sajeetha Banu
Sprint-2	Features Of Design	USN-6	As a designer, I will add up the alerting components such as buzzer & LED to the design.	6	High	Saraswathy
Sprint-3	Customization Of Code	USN-7	As a developer, I can develop a code with related Libraries.	6	Medium	Rohini
Sprint-3	Code Testing	USN-8	As a developer, I can create an overall programming with testing of code .	6	Medium	Saranya
Sprint-4	Indication Of Alert	USN-9	As a user, I will receive the alert SMS when leakage arises and so the LED & buzzer gets turn on.	6	High	Rohini

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-4	Establishment of the Design	USN-10	As a designer, the design of the system with its connection and the required documents such as app for design application and the related codes are submitted.	6	High	Sajeetha Banu

#### 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	12	6 Days	24 Oct 2022	29 Oct 2022	12	29 Oct 2022
Sprint-2	12	6 Days	31 Oct 2022	05 Nov 2022	12	05 Nov 2022
Sprint-3	12	6 Days	07 Nov 2022	12 Nov 2022	12	12 Nov 2022
Sprint-4	12	6 Days	14 Nov 2022	19 Nov 2022	12	19 Nov 2022

#### Velocity:

Imagine we have a 10-day sprint duration, and the velocity of the team is 12 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

$$\text{Average Velocity} = 12/6 = 2$$

## 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.

