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

Date	18October 2022
Team ID	PNT2022TMID17812
Project Name	Project - Gas Leakage Monitoring and Alerting
	System
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	User Story	User Story / Task	Story Points	Priority	Team Members
	Requirement (Epic)	Number				
Sprint-1	Objective	USN-1	The sensor must detect the gas	7	High	Manish,
						Athinarayanan
Sprint-1	Features	USN-2	The values must be displayed	2	Low	Mohamad Umar, Anto
						Nidhish
Sprint-1	Features	USN-3	Based on threshold, Danger light must be	5	High	Arun Priyan, Anto
			turned ON			Nidhish
Sprint-1	Features	USN-4	Based on threshold, Buzzer and other	5	High	Mohamad Umar,
			alerting system must be turned ON			Athinarayanan
Sprint-2	Focus	USN-5	Location of gas leakage must be found and	8	High	Anto Nidhish,
			attached in the alert message being			Manish
			generated			
Sprint-2	Focus	USN-6	Alert SMS must be sent to the registered	2	Low	Arun Priyan, Mohamad
			phone number			Umar
Sprint-2	Features	USN-7	Pipe segment where the leakage is found	5	Medium	Mohamad Umar,
			must close automatically			Manish
Sprint-2	Features	USN-8	Whether the pipe is closed successfully or	5	Medium	Mohamad Umar, Anto
			not must be intimated to the user via			Nidhish
			message			

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Data Transfer	USN-9	API key must be retrieved to transfer the data to IBM Cloud	2	Low	Mohamad Umar, Anto Nidhish
Sprint-3	Data Transfer	USN-10	Data of sensor along with its latitude and longitude must be sent to IBM Cloud	5 Medium		Arun Priyan,Anto Nidhish
Sprint-3	Data Transfer	USN-11	IBM Cloud should send data to Node Red	2	Medium	Athinarayanan, Manish
Sprint-3	Data Transfer	USN-12	Data obtained in Node Red must be forwarded to MIT App	3 Medium		Athinarayanan, Anto Nidhish
Sprint-3	Data Transfer	USN-13	Data must be displayed in the application developed using MIT.	8	High	Athinarayanan,Mohamad Umar
Sprint-4	Registration	USN-14	User must register an account using Email and Mobile Number in the website	2	High	Athinarayanan, Manish
Sprint-4	Registration	USN-15	Confirmation mail must be received to the registered Mail-ID	2	Medium	Manish,Arun Priyan
Sprint-4	Login	USN-16	User can login into web application through email and password.	3	High	Anto Nidhish, Arun Priyan
Sprint-4	Dashboard	USN-17	User can access the dashboard and make use of available resources.	2	Medium	Mohamad Umar, Manish
Sprint-4	Focus	USN-18	User must receive an SMS once the leakage is detected.	5	High	Mohamad Umar, Manish
Sprint-4	Allocation	USN-19	Admin must receive information about the leakage along with location and share exact location and route to the person.	3	High	Manish, Arun Priyan
Sprint-4	Allocation	USN-20	Admin must allot particular person to look after the leakage in a particular location.	3	High	Athinarayanan, Anto Nidhish

# **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		29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022		05 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022		12 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022		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.

https://www.visual-paradigm.com/scrum/scrum-burndown-chart/

https://www.atlassian.com/agile/tutorials/burndown-charts

#### Reference:

https://www.atlassian.com/agile/project-management

 $\underline{https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software}$ 

https://www.atlassian.com/agile/tutorials/epics

https://www.atlassian.com/agile/tutorials/sprints

https://www.atlassian.com/agile/project-management/estimation

https://www.atlassian.com/agile/tutorials/burndown-charts