

Project Planning Phase

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

Date	21 October 2022
Team ID	PNT2022TMID53629
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 Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Detection	USN-1	As a system, it must sense/detect the leakage of any gas through the sensor.	4	High	Rajesh Kumar R
Sprint-2		USN-2	As a system , it must detect the amount of gas leaked.	3	Medium	V Pon Sairaam
Sprint-2		USN-3	As a system, it must update the website about the level of leakage in industries surrounding the area.	3	Medium	Ragul T
Sprint-1	Registration	USN-1	As a user, I must first register my e-mail and mobile number in the website.	3	High	Kathirvel R
Sprint-1		USN-2	As a user, I must receive confirmation mail and SMS on registration.	2	Low	Kathirvel R
Sprint-2	Login	USN-3	As a user, I can login into the web application through e-mail and password.	3	Medium	Ragul T
Sprint-4	Dashboard	USN-4	As a user, I can access the dashboard and make use of available resources.	3	Low	V Pon Sairaam
Sprint-3	Notification	USN-5	As a user, I must receive an E-mail once the leakage is detected.	3	High	Rajesh Kumar R
Sprint-3		USN-6	As a user, I must receive an SMS once the leakage is detected.	3	High	V Pon Sairaam
Sprint-1	Registration	USN-1	As an admin, I must first register myself in the portal using E-mail.	3	High	Rajesh Kumar R

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2		USN-2	As an admin, I must receive confirmation mail.	3	Medium	Ragul T
Sprint-3	Login	USN-3	As an admin, I can login into the web application through e-mail and password.	3	Medium	Kathirvel R
Sprint-4	Dashboard	USN-4	As an admin, I can access the dashboard and make use of available resources.	3	Low	Ragul T
Sprint-3	Notification	USN-5	As an admin, I must receive information about the leakage along with location.	3	High	Rajesh Kumar R
Sprint-4	Allocation	USN-6	As an admin, I must allot particular person to look after the leakage in a particular location.	3	Medium	Pon Sairaam V
Sprint-4		USN-7	As an admin, I must share exact location and route to the person.	3	High	Kathirvel R

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

Velocity:

Imagine we have a 6-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)

$$AV = \text{Velocity} / \text{Sprint Duration} = 12 / 6 = 2$$

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.

<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>

<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>