

Project Planning Phase

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

Date	21 October 2022
Team ID	PNT2022TMID35489
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	M. Saranya
Sprint-2		USN-2	As a system , it must detect the amount of gas leaked.	3	Medium	M.Pon Ajiritha
Sprint-2		USN-3	As a system, it must update the website about the level of leakage in industries surrounding the area.	3	Medium	M.Saranya
Sprint-1	Registration	USN-1	As a user, I must first register my e-mail and mobile number in the website.	3	High	M. Pon Ajiritha
Sprint-1		USN-2	As a user, I must receive confirmation mail and SMS on registration.	2	Low	D. Sanghavai Bhuvaneswari
Sprint-2	Login	USN-3	As a user, I can login into the web application through e-mail and password.	3	Medium	D.Sanghavai Bhuvaneswari
Sprint-4	Dashboard	USN-4	As a user, I can access the dashboard and make use of available resources.	3	Low	M.Saranya
Sprint-3	Notification	USN-5	As a user, I must receive an E-mail once the leakage is detected.	3	High	M.Saranya
Sprint-3		USN-6	As a user, I must receive an SMS once the leakage is detected.	3	High	M.Pon Ajiritha
Sprint-1	Registration	USN-1	As an admin, I must first register myself in the portal using E-mail.	3	High	M.Subarna

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	M. Subarna
Sprint-3	Login	USN-3	As an admin, I can login into the web application through e-mail and password.	3	Medium	D.Sanghavai Bhuvaneswari
Sprint-4	Dashboard	USN-4	As an admin, I can access the dashboard and make use of available resources.	3	Low	M.Pon Ajiritha
Sprint-3	Notification	USN-5	As an admin, I must receive information about the leakage along with location.	3	High	M.Subarna
Sprint-4	Allocation	USN-6	As an admin, I must allot particular person to look after the leakage in a particular location.	3	Medium	D.Sanghavai Bhuvaneswari
Sprint-4		USN-7	As an admin, I must share exact location and route to the person.	3	High	M.Subarna

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>