

Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID37136
Project Name	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	objective	USN-1	Unidentifiable gas leaks give rise to explosions that are harmful to the employees working in the hazardous environment	2	High	MONIKA.D ESAKKI DEVI.S ANGEL FELCIYA.I DHATCHAYINI.M
Sprint-2	features	USN-2	The gas sensors help detect the concentration of the gases present in the atmosphere to avoid hazardous consequences	1	High	MONIKA.D ESAKKI DEVI.S ANGEL FELCIYA.I DHATCHAYINI.M
Sprint-3	features	USN-3	IOT POWDERED GAS DETECTION uses gas sensors to identify the presence of toxic gases such as CO ₂ , CO, NO _x in the industrial facilities	2	Low	MONIKA.D ESAKKI DEVI.S ANGEL FELCIYA.I DHATCHAYINI.M
Sprint-4	features	USN-4	sensing of toxic gases such as H ₂ S, Methane, and CO is of great importance in any industry to avoid unwanted leakage and consequences like poisoning or explosions	2	Medium	MONIKA.D ESAKKI DEVI.S ANGEL FELCIYA.I DHATCHAYINI.M

Sprint-1	focus	USN-5	Prevent fire hazards and explosion,supervise gas concentration,Ensure worker's health.	1	High	MONIKA.D ESAKKI DEVI.S ANGEL FELCIYA.I DHATCHAYINI.M
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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)

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