

Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID04339
Project Name	Gas leakage monitoring and alerting system for industries.
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	Resources Initialization	USN-1	Create and set up accounts for several open APIs, such as the Open Weather Map API.	1	Low	Dharanesh S
Sprint-1	Local Server/Software Run	USN-1	Write a Python program that generates outputs in response to inputs such as location and weather.	1	Medium	Arun Prabu AS
Sprint-2	Push the server/software to cloud	USN-2	Push the code from Sprint 1 to cloud so it can be accessed from anywhere	2	Medium	Dharaaneshwaran S
Sprint-3	Hardware initialization	USN-3	Integrate the hardware so you may use it to access cloud services and provide them input.	2	High	Hariharan G
Sprint-4	UI/UX Optimization & Debugging	USN-4	Optimize all the shortcomings and provide better user experience.	2	Low	Hariharan T

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	31 Oct 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	07 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	14 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)

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