

Project Planning Phase

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

Team ID	PNT2022TMID01194
Project Name	Hazardous Area Monitoring for Industrial Plant powered by IoT
Maximum Marks	8 Marks

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Registration	USN-1	As a user, I can register for the application by entering my email, password	4	High	VASUNDARA
Sprint-1		USN-2	As a user, I can register for the application through Gmail	4	Medium	VAISHNAVI
Sprint-2	Login	USN-3	As a user, I can log into the application by entering email & password	4	High	MADHU VARSHINI
Sprint-2	Dashboard	USN-4	As a User, I can monitor the temperature and humidity.	4	Medium	SHERLY
Sprint-3	Alerting through message	USN-5	As a User, I can receive message in the form of visual notification.	4	Medium	VASUNDARA
Sprint-3	Monitoring	USN-6	As a User, I can able to monitor the harmful gases, high temperature through mobile application.	4	High	VAISHNAVI
Sprint-4	Maintenance	USN-7	As an executive, I manage a team of representatives offering customer support	4	Low	MADHU VARSHINI
Sprint-4	Administration Work	USN-8	As an Administrator, I can able to access the data through the cloud	4	High	SHERLY

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)

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

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.

