

## 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, and confirming my password.	4	High	VASUNDARA
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	4	High	VAISHNAVI
Sprint-2		USN-3	As a user, I can register for the application through Facebook	4	Low	MADHU VARSHINI
Sprint-1		USN-4	As a user, I can register for the application through Gmail	4	Medium	SHERLY
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	4	High	VASUNDARA
Sprint-2	Dashboard	USN-6	As a User, I can monitor the temperature and humidity.	4	Medium	VAISHNAVI
Sprint-2	Alerting through message	USN-7	As a User, I can receive message in the form of visual notification and voice message	4	Medium	MADHU VARSHINI
Sprint-3	Monitoring	USN-8	As a User, I can able to monitor the harmful gases, high temperature through mobile application.	4	High	SHERLY
Sprint-4	Maintenance	USN-9	As an executive, I manage a team of representatives offering customer support	4	Low	VASUNDARA
Sprint-4	Administration Work	USN-10	As an Administrator, I can able to access the data through the cloud	4	High	VAISHNAVI

**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		
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022		
Sprint-4	20	6 Days	14 Nov 2022	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.

