

Project Planning Phase

Project Planning Template (Product Backlog, Sprint Planning, Stories, Storypoints)

Date	18 October 2022
Team ID	PNT2022TMID35932
Project Name	Hazardous Area monitoring in Industrial Plants 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	Temperature monitoring	USN-1	As a user, I need to know the temperature of the Industrial plant.	4	High	Thilak, Manibalan.
Sprint-1	Gas Monitoring	USN-2	As a user, I need the gas composition and/or concentration around me.	2	Medium	Bharani, Bhuvanesh.
Sprint-2	IOT dashboard interfacing	USN-3	As a user, I must be able to view the data using internet.	4	High	Bharani, Manibalan
Sprint-3	Web UI	USN-4	As a user, I must be able to access data from a website.	2	Low	Thilak, Bhuvanesh
Sprint-4	Mobile UI	USN-5	As a user, I can view the data log in a Mobile application.	2	Low	Bharani, Manibalan.

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	6	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	4	
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	2	
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	2	

Velocity:

We have a 6-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)

$$AV = \frac{\text{sprint duration}}{\text{velocity}} = \frac{20}{6}$$

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.

