

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

Date	03 November 2022
Team ID	PNT2022TMID33754
Project Name	Project -Industry-specific intelligent fire management system
Maximum Marks	8 Marks

Product Backlog, Sprint Schedule, and Estimation

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Checking the condition	USN-1	Collecting the data of the environment condition around the place	2	High	
Sprint-1	Analysing	USN-2	Analyse the data collected	1	Low	
Sprint-2		USN-3	If emergency reporting to the nearest fire station	2	High	
Sprint-1		USN-4	Spraying the water from water tank using sprinklers	2	Medium	
Sprint-1	Fire analyse	USN-5	Finding the reason for fire	1	High	

Project Tracker, Velocity & Burndown Chart:

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	2 Days	24 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint-2	20	1 Day	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 burndown 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.