

## Project Planning Phase

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

#### 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	Login	USN-1	As a customer, I might ensure login credential through Gmail ease manner for the purpose of sending alert message to the owner.	2	High	Newton prabu P, Nivedha S, Karthikeyan M, Banushree S
Sprint-1	Registration	USN-2	As a user, I have to registered my details and tools details in a simple and easy manner in case of fire, this registered system sends notification to the industrialist.	2	High	Newton prabu P, Nivedha S, Karthikeyan M, Banushree S
Sprint-2	Dashboard	USN-3	As a user, in case of Fire in the industry I need the sprinkler to spray water on the existing fire automatically.	2	Low	Newton prabu P, Nivedha S, Karthikeyan M, Banushree S

Sprint-1	Dashboard	USN-4	As a user, I need to safeguard my properties as well as and it will be better to send alert message to the fire department.	2	Medium	Newton prabu P, Nivedha S, Karthikeyan M, Banushree S
Sprint-1	Dashboard	USN-5	As a user, its good to have a IOT based system to extinguish the fire without human presence.	2	High	Newton prabu P, Nivedha S, Karthikeyan M, Banushree S

#### Project Tracker, Velocity & Burndown Chart: (4 Marks)

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint Date End (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	20	3 Days	6 NOV 2022	9 NOV 2022	20	9 NOV 2022
Sprint-2	20	2 Days	10 NOV 2022	12 NOV 2022	20	12 NOV 2022
Sprint-3	20	2 Days	12 NOV 2022	14 NOV 2022	20	14 NOV 2022
Sprint-4	20	1 Days	14 NOV 2022	15 NOV 2022	20	15 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)

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