

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	Aparna S,Nimisha S,Madhurima, Vaishnavi
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	Aparna S,Nimisha S,Madhurima, Vaishnavi
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	Aparna S,Nimisha S,Madhurima, Vaishnavi

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	Aparna S,Nimisha S,Madhurima, Vaishnavi
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	Aparna S,Nimisha S,Madhurima, Vaishnavi

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)

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