

## Project Planning Phase

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

Date	22 October 2022
Team ID	PNT2022TMID06473
Project Name	Industry – specific intelligent fire management system
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	Installation	USN-1	As a user, I will analyse the feasible positions to fix the fire detection sensor/system	2	High	Divyabharathi, Abinav
Sprint-1		USN-2	As a user, I will make proper wiring and piping connections	1	High	Gobisuresh, Premanand
Sprint-2	Fault finding	USN-3	As a user, I ensure that I have installed properly	2	Medium	Abinav, Gobisuresh
Sprint-1	Monitoring system	USN-4	As a user, I ensure that the battery fully charged	2	Medium	Divyabharathi, Prem anand
Sprint-2	Sprinkler system	USN-5	As a user, I can ensure that the sprinkler sprinkles the suitable retardant when the system detects fire	2	High	Premanand, Gobisuresh
Sprint-3	Sensor system	USN-6	As a user, I will install the various sensors(temperature sensor, smoke detection sensor)	2	High	Abinav, Premanand
Sprint-4	Alarm system	USN-7	As a user, I will use the buzzer for alerting when the system detects fire	2	High	Premanand, Divyabharathi
Sprint-4	Alert system	USN-8	As a user, I will use Google API for identifying the location and alert the fire station using GSM	2	High	Gobisuresh, Divyabharathi

**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	20	31 Oct 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	07 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	14 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)

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