

## Project Planning Phase

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

Date	4 November 2022
Team ID	PNT2022TMID45189
Project Name	Industry-specific intelligent fire management system
Maximum Marks	8 Marks

#### 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	Sensing	USN-3	Sensing the surrounding environment using the sensors	10	High	Sathish I
	Extinguish	USN-4	Turning on the exhaust fan as well as the fire sprinkler system in cause/case of fire	10	High	Aravind T
Sprint-2	Sending Data to the IBM Not platform	USN-5	Sending the data of the sensor form the microcontroller to the IBM Watson IoT platform	10	Medium	Laiyancemary A
	Node-red	USN-6	Sending the data from the IBM Watson to the Node-red for further process the data	10	High	Selvaganapathi M
Sprint-3	Storing of sensor data	USN-7	Storing the received sensor data in a cloud Database	10	Low	Sathish I
	Monitoring the environment	-USN 1	User can monitor the situation of the environment from a dashboard that displays sensor information about the environment	10	Medium	Aravind T

<b>Sprint</b>	<b>Functional Requirement (Epic)</b>	<b>User Story Number</b>	<b>User Story / Task</b>	<b>Story Points</b>	<b>Priority</b>	<b>Team Members</b>
Sprint-4	Turn on/off the exhaust and sprinkler system	-USN 2	User can turn of the Exhaust fan as well as the sprinkler system if need in that situation	10	Medium	Laiyancemary A
	Event Notification	-USN 8	Sending an alert SMS to the fire authority in case of fire	10	High	Selvaganapathi M

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

<b>Sprint</b>	<b>Total Story Points</b>	<b>Duration</b>	<b>Sprint Start Date</b>	<b>Sprint End Date (Planned)</b>	<b>Story Points Completed (as on Planned End Date)</b>	<b>Sprint Release Date (Actual)</b>
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	05 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	12 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	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)

$$\begin{aligned} AV &= 20/10 \\ &= 2 \end{aligned}$$

Burndown Chart

