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

Date	18 October 2022
Team ID	PNT2022TMID26584
Project Name	Project - 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	Registration	USN-1	As a user, I can register for the product by entering my email and password.	1	High	Jothishwaran S
Sprint-1	Flame sensor	USN-3	As a user, I will purchase the product which consists of flame sensors.	2	High	Deepak S
Sprint-1	Sprinkler	USN-4	As a user, I can observe that the sprinkler turns on automatically as soon as the flame is detected.	1	Medium	Avinash M
Sprint-2	Gas sensor	USN-5	As a user, I will purchase the product which consists of gas sensors.	1	Medium	Avinash M
Sprint-2	Exhaust fan	USN-6	As a user, I can observe that the exhaust fan turns on automatically as soon as the gas is detected.	2	High	Vinothkumar K
Sprint-3	Buzzer	USN-7	As a user, I can observe that the buzzer rings after the detections in order to alert the people.	1	Medium	Deepak S
Sprint-3	Fast SMS	USN-8	As a user, I will receive alert notification and also be notified to fire work station.	2	High	Avinash M
Sprint-4	Final Deliverable	USN-9	As a user, I experience a safe environment with the help of this fire management system.	2	High	Jothishwaran S

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	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)

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

Burndown Chart:

A burn down 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.

https://www.visual-paradigm.com/scrum/scrum-burndown-chart/
https://www.atlassian.com/agile/tutorials/burndown-charts

Reference:
https://www.atlassian.com/agile/project-management
https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software
https://www.atlassian.com/agile/tutorials/epics
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