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

Date	18 November 2022
Team ID	PNT2022TMID34904
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 a product backlog and sprint schedule

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Sensing the values	USN-1	As a user, I want to see the temperature values	3	High	Fershia G Geona, Reshma Xavier
Sprint-1	Sensing the values	USN-2	As a user, I want to see gas values	2	High	Fershia G Geona, Reshma Xavier
Sprint-1	Sensing the values	USN-3	As a user, I want to see if flame is present	2	High	Godsy D, Aswini A
Sprint-2	Displaying temperature value	USN-4	As a user, I want to see the temperature values in dashboard	2	Medium	Fershia G Geona, Reshma Xavier
Sprint-2	Displaying gas value	USN-5	As a user, I want to see the gas values in dashboard	2	Medium	Fershia G Geona, Reshma Xavier

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2	Displaying flame value	USN-6	As a user, I want to see flame values in dashboard	2	Medium	Godsy D, Aswini A
Sprint-3	Alarm On	USN-7	As a user, the alarm should be turned on immediately if temperature, gas, flame values exceeds a particular threshold in web application	3	High	Fershia G Geona, Reshma Xavier
Sprint-3	Alarm Off	USN-8	As a user, I need to turn off alarm in web application	2	Low	Fershia G Geona, Reshma Xavier
Sprint-3	Sprinkler On	USN-9	As a user, the sprinkler should be turned on immediately if temperature, gas, flame values exceeds a particular threshold in web application	3	High	Godsy D, Aswini A
Sprint-3	Sprinkler Off	USN-10	As a user, I need to turn off sprinkler in web application	2	Low	Godsy D, Aswini A
Sprint-4	Registration	USN-11	As a user, I can register for the application by entering email, password, and confirming my password	3	High	Fershia G Geona
Sprint-4	Displaying sensor values	USN-12	Displaying gas, flame and temperature sensor values	3	High	Reshma Xavier
Sprint-4	Alarm On	USN-13	As a user, the alarm should be turned on immediately if temperature, gas, flame values exceeds a particular threshold using mobile application	3	High	Fershia G Geona, Reshma Xavier
Sprint-4	Alarm Off	USN-14	As a user, I need to turn off alarm using mobile application	2	Low	Fershia G Geona, Reshma Xavier
Sprint-4	Sprinkler On	USN-15	As a user, the sprinkler should be turned on immediately if temperature, gas, flame values exceeds a particular threshold using mobile application	3	High	Godsy D, Aswini A
Sprint-4	Sprinkler Off	USN-16	As a user, I need to turn off sprinkler using mobile application	2	Low	Godsy D, Aswini A

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		6 Days	24 Oct 2022	29 Oct 2022	7	
Sprint-2		6 Days	31 Oct 2022	05 Nov 2022	6	
Sprint-3		6 Days	07 Nov 2022	12 Nov 2022	10	
Sprint-4		6 Days	14 Nov 2022	19 Nov 2022	16	

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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