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

Date	18 November 2022
Team ID	PNT2022TMID20427
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	Ganesh Arravind B,Lokeshdurai V,Naveenraj B M,Abiswetha S
Sprint-1	Sensing the values	USN-2	As a user, I want to see gas values	2	High	Ganesh Aravind B,Lokeshdurai V,Naveenraj B M,Abiswetha S
Sprint-1	Sensing the values	USN-3	As a user, I want to see if flame is present	2	High	Ganesh Aravind B,Lokeshdurai V,Naveenraj B M,Abiswetha S
Sprint-2	Displaying temperature value	USN-4	As a user, I want to see the temperature values in dashboard	2	Medium	Ganesh Aravind B,Lokeshdurai V,Naveenraj B M,Abiswetha S
Sprint-2	Displaying gas value	USN-5	As a user, I want to see the gas values in dashboard	2	Medium	Ganesh Arravind B,Lokeshdurai V,Naveenraj B M,Abiswetha S

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	Ganesh Arravind B, Lokeshdura.V Naveenraj B M Abiswetha S
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	Ganesh Arravind B Lokeshdurai V Naveenraj B M Abiswetha S
Sprint-3	Alarm Off	USN-8	As a user, I need to turn off alarm in web application	2	Low	Ganesh Arravind B Lokeshdurai V Naveenraj B M Abiswetha S
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	Ganesh Arravind B Lokeshdurai V Naveenraj B M Abiswetha S
Sprint-3	Sprinkler Off	USN-10	As a user, I need to turn off sprinkler in web application	2	Low	Ganesh Arravind B Lokeshdurai V Naveenraj B M Abiswetha S
Sprint-4	Registration	USN-11	As a user, I can register for the application by entering email, password, and confirming my password	3	High	Ganesh Arravind B Lokeshdurai V Naveenraj B M Abiswetha S
Sprint-4	Displaying sensor values	USN-12	Displaying gas, flame and temperature sensor values	3	High	Ganesh Arravind B Lokeshduri V Naveenraj B M Abiswetha S
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	Ganesh Arravind B Lokeshdurai V Naveenraj B M Abiswetha S

Sprint-4	Alarm Off	USN-14	As a user, I need to turn off alarm using mobile application	2	Low	Ganesh Arravind B Lokeshdurai V Naveenraj B M Abiswetha S
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	Ganesh Arravind B,Lokeshdurai V,Naveenraj B M,Abiswetha S
Sprint-4	Sprinkler Off	USN-16	As a user, I need to turn off sprinkler using mobile application	2	Low	Ganesh Arravind B, Lokeshdurai V, Naveenraj B M Abiswetha 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		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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