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

Date	27 October 2022
Team ID	PNT2022TMID06972
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 application by entering my email, password, and confirming my password.	2	High	Abirami B, Aruna S,
Sprint-1	Simulation	USN-2	Connect sensors and Arduino with python.	1	High	Vanitha E S, Showmini R
Sprint-2	Software	USN-3	Creating device in the IBM Watson IoT platform, and	2	Low	Abirami B, Aruna S,

			workflow using Node-Red.			
Sprint-1	MIT App Inventor	USN-4	Develop a mobile application for the Fire Management System using MIT app inventor.	2	Medium	Vanitha E S, Showmini R
Sprint-1	Login	USN-5	As a user, I can log into the application byentering email & password	1	High	Abirami B, Aruna S,

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint - 1	Dashboard	USN-6	As a user,I can get notification alert	1	Medium	Abirami B, Aruna S
Sprint-3	Testing and Development Phase1	USN-7	Testing the system performance ,For anemergency case and its deployed	2	High	Vanitha E S, Showmini R
Sprint-3	Linking	USN-8	Link the app with the IBM cloud.	2	High	Abirami B, Aruna S
Sprint-4	Implementation	USN-9	Deployment of IOT based industrial specific fire management system . I can see and usethe system for 24/7.	2	High	Vanitha E S, Showmini R

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)

$$AV = \frac{\text{SPRINT DURATION}}{\text{VELOCITY}} = \frac{20}{6} = 3.33$$

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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https://www.atlassian.com/agile/tutorials/burndown-charts