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

Team ID	PNT2022TMID01194
Project Name	Hazardous Area Monitoring for Industrial Plant powered by IoT
Maximum Marks	8 Marks

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Creation	USN-1	Creating a python code for connecting sensor and Arduino.	4	High	VASUNDARA
Sprint-1	Simulation	USN-2	Simulating the python code.	4	Medium	VAISHNAVI
Sprint-2	Device Creation	USN-3	Device creation using IOT Watson platform with credentials	4	High	MADHU VARSHINI
Sprint-2	Device performance	USN-4	Required performance of device using local node red platform.	4	Medium	SHERLY
Sprint-3	Python code	USN-5	Python code for the temperature alert and humidity check.	4	Medium	VASUNDARA
Sprint-3	Monitoring	USN-6	Design an application for the project using MIT app inventor.	4	High	VAISHNAVI
Sprint-4	Testing	USN-7	Test the application with required MIT AI2 Companion code.	4	Low	MADHU VARSHINI
Sprint-4	User Interface	USN-8	Creation of web UI (user interface) connected to the software.	4	High	SHERLY

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.

› ⚡ HAM-38 Creation	▬▬▬▬		
› ⚡ HAM-39 Simulation	▬▬▬▬		
› ⚡ HAM-40 Device Performance	▬▬▬▬		
› ⚡ HAM-41 Testing			▬▬▬▬
› ⚡ HAM-42 Monitoring		▬▬▬	
› ⚡ HAM-43 User Interface			▬▬▬▬
› ⚡ HAM-44 Python Code		▬▬▬	
› ⚡ HAM-45 Device Creation	▬▬▬		