Project Planning Phase

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

Date	28 October 2022
Team ID	PNT2022TMID14654
Project Name	Hazardous Area Monitoring for Industrial Plant Powered by IoT
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	IBM Watson IOT platform	USN-1	Monitoring parameters such as temperature ,gas leakage, noise level, radiation	15	High	Manojkumar M, Karthich S, Karthikeyan M, Manobharath M
Sprint-2	Node-Red	USN-2	Design UI to display the monitored parameters,configure the application to receive the data from cloud	20	High	Manojkumar M, Karthich S, Karthikeyan M, Manobharath M
Sprint-3	Python-IDLE 3.7	USN-4	Publish the data to the cloud	20	High	Manojkumar M, Karthich S, Karthikeyan M, Manobharath M
Sprint-4	Online Monitoring via Web and Application	USN-3	Mobile Application will be created and fast sms will be used to alert abnormality to the user. Websites will be created and connected with the cloud services.	20	High	Manojkumar M, Karthich S, Karthikeyan M, Manobharath M

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	2 Days	1 Nov 2022	2 Nov 2022	2	
Sprint-2	20	2 Days	3 Nov 2022	05 Nov 2022	2	
Sprint-3	20	5 Days	07 Nov 2022	12 Nov 2022	6	
Sprint-4	20	5 Days	14 Nov 2022	19 Nov 2022	6	

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