Project Planning Phase

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

Date	06 November 2022
Team ID	PNT2022TMID06909
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	User Story Number	User Story / Task	Task Points	Priority	Team Members
Sprint-1	Installation of Beacons	USN-1	First the Admin User will be installing smart beacons at necessary places.	15	High	Anto Sanjay S Abdul Malik A Ajay S Anbarasu M
Sprint-2	Providing Wearables	USN-2	The Admin should provide wearable devices to everyone in the industry.	5	Medium	Anto Sanjay S Abdul Malik A Ajay S Anbarasu M
Sprint-3	Cloud Setup	USN-3	The Smart Beacons will be connected to the IBM cloud services where we can get the realtime monitoring data from the wearable gadget.	20	High	Anto Sanjay S Abdul Malik A Ajay S Anbarasu M
Sprint-4	Online Monitoring via Web	USN-4	Websites should be created and connected with IBM cloud which helps in viewing the realtime data from wearable device in GUI and storing the logs in the database.	20	High	Anto Sanjay S Abdul Malik A Ajay S Anbarasu M
Sprint-5	Monitoring via Mobile	USN-5	To alert the abnormality, Mobile Applications and Mail services are created to receive the alert notification.	20	High	Anto Sanjay S Abdul Malik A Ajay S Anbarasu 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	3 Days	06 Nov 2022	08 Nov 2022		08 Nov 2022
Sprint-2	20	3 Days	09 Nov 2022	11 Nov 2022		11 Nov 2022
Sprint-3	20	4 Days	12 Nov 2022	15 Nov 2022		15 Nov 2022
Sprint-4	20	4 Days	16 Nov 2022	19 Nov 2022		19 Nov 2022

Velocity:

Imagine for a 10-day sprint duration with velocity of team is 20 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

$$AV = \frac{sprint\ duration}{velocity} = \frac{20}{10} = 2$$