HAZARDOUS AREA MONITORING FOR INDUSTRIAL PLANTS POWERED BY IOT

PROJECT PLANNING PHASE

Date	10 November 2022
Team ID	PNT2022TMID43711
Project Name	Project – Hazardous area monitoring for industrial plants powered by IOT
Maximum Marks	8 Marks

TEAM MEMBERS

TEAM LEAD - KAVIYA V

TEAM MEMBER 1 - AJISHA R

TEAM MEMBER 2 - KARTHIKA P

TEAM MEMBER 3 - SANDHIYA DEVI M

BACHELOR OF ENGINEERING IN ELECTRONICS AND COMMUNICATION ENGINEERING

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	Installation of beacons	USN-1	First the Admin will be installing smart beacons at necessary places	1	High	Kaviya V Sandhiya Devi M Ajisha R Karthika P
Sprint-1	Providing Wearables	USN-1	The Admin will be providing everyone at the Industry a wearable device.		Medium	Kaviya V Sandhiya Devi M Ajisha R Karthika P
Sprint-2	Cloud Setup	USN-2	The smart Beacons will connect with the cloud services. Where we can get the real time data from the wearable	1	High	Kaviya V Sandhiya Devi M Ajisha R Karthika P
Sprint-3	Online Monitoring via Web	USN-3	Websites will be created and connected with the cloud services.	1	High	Kaviya V Sandhiya Devi M Ajisha R Karthika P

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-4	Monitoring via Mobile	USN-4	Mobile Application will be created and fast sms will be used to alert abnormality to the user.	1	High	Kaviya V Sandhiya Devi M Ajisha R Karthika P

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	10	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	10	05 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	10	12 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	10	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)

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