

**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	Sapna U K Goli Hemaswi Kavitha S Priyadarshini S
Sprint-1	Providing Wearables	USN-1	The Admin will be providing everyone at the Industry a wearable device.		Medium	Sapna U K Goli Hemaswi Kavitha S Priyadarshini S
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	Sapna U K Goli Hemaswi Kavitha S Priyadarshini S
Sprint-3	Online Monitoring via Web	USN-3	Websites will be created and connected with the cloud services.	1	High	Sapna U K Goli Hemaswi Kavitha S Priyadarshini S

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	Sapna U K Goli Hemaswi Kavitha S Priyadarshini S

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)

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