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

Date	16 November 2022
Team ID	PNT2022TMID15984
Project Name	Project – Hazardous area monitoring for industrial plant powered by IOT
Maximum Marks	8 Marks
Team Members	Anuvarshini SS Bhuvaneshwari S Fiona M Geethika KN

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	Instalment of beacons at necessary places	10	Medium	Anuvarshini SS Geethika KN
Sprint-1	Providing wearable devices	USN-2	All the workers are provided with the smart wearable device	10	Medium	Anuvarshini SS Bhuvaneshwari S

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2	Cloud Setup	USN-3	The real time data collected from environment by wearable devices are stored in cloud service network. The smart beacons will connect with the cloud network.	20	High	Fiona M Geethika KN
Sprint-3	Online monitoring vis web	USN-4	Websites will be crated and connected to cloud services.	15	Medium	Bhuvaneshwari S Fiona M
Sprint-4	Monitoring via mobile app	USN-5	Mobile Application will be created and fast messages will be generated to notify/alert the abnormality to the user.	20	High	Anuvarshini SS Bhuvaneshwari S Fiona M Geethika KN

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		05 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022		12 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022		14 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.

https://www.visual-paradigm.com/scrum/scrum-burndown-chart/

https://www.atlassian.com/agile/tutorials/burndown-charts

Reference:

https://www.atlassian.com/agile/project-management

https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software

https://www.atlassian.com/agile/tutorials/epics

https://www.atlassian.com/agile/tutorials/sprints

https://www.atlassian.com/agile/project-management/estimation

https://www.atlassian.com/agile/tutorials/burndown-charts