Project Planning Phase

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

Date	31 October 2022
Team ID	PNT2022TMID29894
Project Name	Gas leakage monitoring and alerting system
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	Total Story Points	Priority	Team Members
Sprint-1	Gas detection and level monitoring	USN-1	As a user, I can get the gas leakage alert when gas leaking.	20	High	Kayalvizhi M Biruntha M
Sprint-1		USN-2	As a user, I can get the different gas level when gas leaking.	20	Medium	Elamathi G Mohanapriya S
Sprint-2	Exhaust fan on	USN-3	As a user, I can turn on exhaust fan.	20	Medium	Biruntha M Elamathi G
Sprint-2		USN-4	As a user, I can turn on exhaust fan when gas leaking.	20	High	Kayalvizhi M Biruntha M
Sprint-3	Node red creation	USN-5	As a user, I can receive gas leakage level with send to alert message.	20	High	Elamathi G Mohanapriya S
Sprint-3		USN-6	As a user, I can receive gas leakage level with alert message through mobile.	20	Medium	Kayalvizhi M Biruntha M
Sprint-4	Documentaion	USN-7	As a user ,I can get the gas level and leakage documentation	20	Medium	Elamathi G Mohanapriya S
Sprint-4		USN-8	As a user ,I can receive alert message and documentation	20	High	Kayalvizhi M Biruntha 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	6 Days	24 Oct 2022	29 Oct 2022	In progress	31 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	In progress	05 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	In progress	17 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	In progress	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)

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

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