Project Planning Phase

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

Date	31 October 2022
Team ID	PNT2022TMID29935
Project Name	Gas leakage detection and monitoring 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 level when gas leaking through web application.	20	High	Veerasathish.U Sudesh.T
Sprint-1		USN-2	As a user, I can get the gas level when gas leaking through mobile app.	20	low	Navaneethakrishnan.D Sathishkumar.M
Sprint-2	GPS tracking	USN-3	As a user, I can get the gas leakage location through mobile app.	20	Low	Navaneethakrishnan.D Sathishkumar.M
Sprint-2		USN-4	As a user, I can get the gas leakage location through web application.	20	High	Veerasathish.U Sudesh.T
Sprint-3	Node red creation	USN-5	As a user, I can receive gas leakage level with location through web application.	20	High	Navaneethakrishnan.D Sathishkumar.M
Sprint-3		USN-6	As a user, I can receive gas leakage level with location through mobile app.	20	Low	Veerasathish.U Sudesh.T
Sprint-4	Documentaion	USN-7	As a user ,I can get the gas level and leakage documentation	20	Low	Navaneethakrishnan.D Sathishkumar.M
Sprint-4		USN-8	As a user ,I can get the gas leakage location and documentation	20	High	Veerasathish.U Sudesh.T

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