Project Planning Phase Sprint Delivery Plan

Date	22 October 2022
Team ID	PNT2022TMID15951
Project Name	Gas Leakage Monitoring and Alerting System
Maximum Marks	8 Marks
Team Members	Barani G(TEAM LEADER) Ashwini R Akshaya K S Abitha J

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Objective	USN-1	As a system, the gas sensor should detect the gas	8	High	Abitha Akshaya
Sprint-1	Features	USN-2	As a system, as soon as the detected gas reaches the threshold level, the siren should be turned ON.	5	High	Akshaya Ashwini
Sprint-2	Focus	USN-3	As a system, it should the send the location where the gas is detected	8	High	Ashwini Barani
Sprint-2	Focus	USN-4	As a system, it should also send the alerting SMS to the registered phone number	2	Low	Barani Abitha

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2	Features	USN-5	As a system, it will indicate that the gas leakage pipe is closed in the LCD screen and send SMS to the registered mobile number.	5	Medium	Akshaya Barani
Sprint-3	Data Transfer	USN-6	As a program, it should retrieve the API key of the IBM cloud to send the details of the system. It should send the data of sensor values along with latitudes and longitudes to the IBM cloud. IBM cloud should sendthe data to Node Red. It should collect the data from the Node Red and give it to the backend of the mit app It should display the details of the gas level and other details to the user through the frontend of the mit app.	8	High	Abitha Ashwini
Sprint-4	Registration	USN-7	As a user, I must first register my email and mobile number in the website, and I have to receive confirmation mail and SMS	2	High	Akshaya Abitha

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task Story Points		Priority	Team Members
Sprint-4	Login	USN-8	As a user, I can login into the web application through email and password.	3	High	Akshaya Ashwini
Sprint-4	Dashboard	USN-9	As a user, I can access the dashboard and make use of available resources.		Medium	Abitha Barani
Sprint-4	Focus	USN-10	As a user, I must receive an SMS once the leakage is detected.	5	High	Akshaya Abitha
Sprint-4	Allocation	USN-11	As an admin, I must receive information about the leakage along with location and share exact location and route to the person. I must allot particular person to look after the leakage in a particular location.	4	High	Ashwini Barani

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		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		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