# Project Planning Phase

## Sprint Delivery Plan

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|---|---|
| Date | 26 October 2022 |
| Team ID | PNT2022TMID13180 |
| Project Name | Gas Leakage Monitoring and Alerting System for Industries |
| Maximum Marks | 8 Marks |

**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 | Analyzing the gas leakage | USN-1 | The owner who wants to save his employees or a person who wants to save their family from explosiontakes necessary actions | 2 | High | Faraaz Ahmed C Mohammed Affan C Mohamed Arqam Abdullah M Abdur Rahman Hammad NS |
| Sprint-1 | Preventing from explosion | USN-2 | The fire officers worries about any explosions dueto gas leakage which maycause many death | 1 | High | Mohamed Arqam Abdullah M Abdur Rahman HammadNS Aasim Ahmed M Harun J |
| Sprint-2 | To detect the gas leakage | USN-3 | The owner can take necessary steps by deploying gas detectors intheir surroundings | 2 | Low | Aasim Ahmed M Harun J Faraaz Ahmed C Mohammed Affan C |
| Sprint-3 | Testing and training of the model device | USN-4 | The programmer can design an gas leakage detection model by trainingthe dataset | 2 | Medium | Mohammed Affan C Mohamed Arqam Abdullah M Aasim Ahmed M Abdur Rahman HammadNS |
| Sprint-4 | Notification | USN-5 | The gas | 1 | High | Harun J |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | leakage detectedby the model can be notified using SMS or alarming system | | | Faraaz Ahmed C Mohammed Affan CAasim Ahmed M |

**Project Tracker, Velocity & Burndown Chart: (4 Marks)**

| Sprint | Total Story Points | Duration | Sprint Start Date | Sprint EndDate (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 | 20 | 05 Nov 2022 |
| Sprint-3 | 20 | 6 Days | 07 Nov 2022 | 12 Nov 2022 | 20 | 12 Nov 2022 |
| Sprint-4 | 20 | 6 Days | 14 Nov 2022 | 19 Nov 2022 | 20 | 19 Nov 2022 |

**Velocity:**

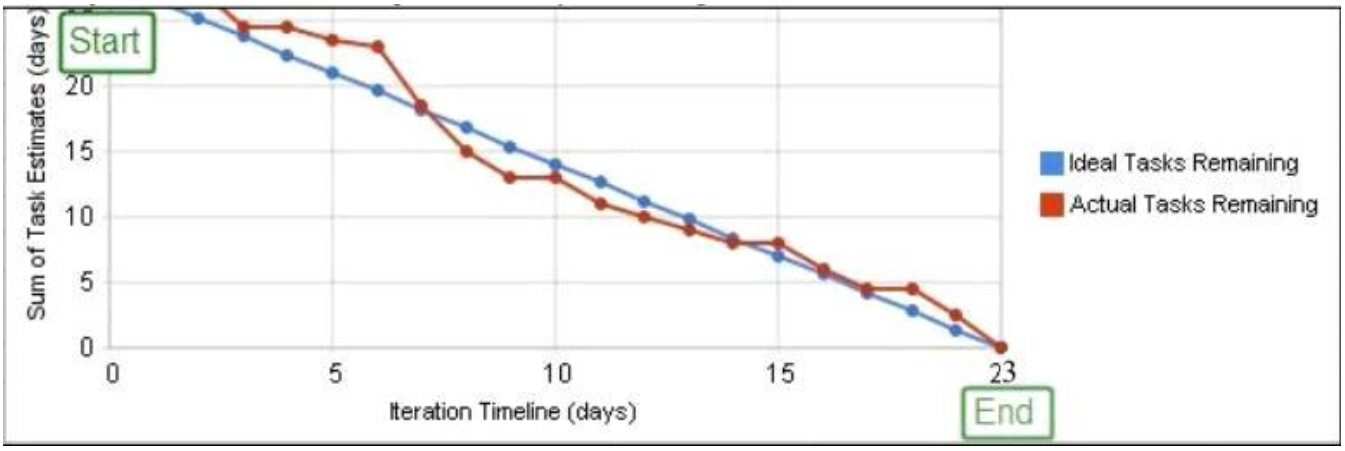
Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let'scalculate the team's average velocity (AV) per iteration unit (story points per day)

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

**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 anyproject containing measurable progress over time.

GAS LEAKAGE MONITORING AND ALERTING SYSTEM FOR INDUSTRIES


Start
Sum of Task Estimates (days)
20
15
10
5
0
0
5
10
15
23
Iteration Timeline (days)
End
Ideal Tasks Remaining
Actual Tasks Remaining