**Project Planning Phase**

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

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| --- | --- |
| Date | 18 October 2022 |
| Team ID | PNT2022TMID43184 |
| Project Name | Project – Gas leakage & Monitoring and Alerting Systems for Industries |
| 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** | **Story Points** | **Priority** | **Team Members** |
| --- | --- | --- | --- | --- | --- | --- |
| Sprint-1 | Monitoring The Gas leakage | USN-1 | The Industrialist have their own industries and it not a compulsory to work because they have workers to work for them. The workers are important for the industries and as well as the family members of the workers. Hence their health is very important and must be take care of the industries. And the industries must give assurance for those workers. | 2 | High | Pramod  Gabriel  Akshaya |
| Sprint-2 | Avoiding the Disaster | USN-2 | We can’t predict the time of disaster hence the fire services must be ready and alert all the time | 1 | High | Pramod  Gabriel  Akshaya |
| Sprint-3 | Detection of the Gas | USN-3 | We have to monitor the gas 24/7 because it has high risk. The industries must have high quality pipes and proper maintenance service once in a month. The industries must take care of all the necessary processes to avoid the gas leakage | 2 | Low | Pramod  Gabriel  Akshaya |
| Sprint-4 | The model is trained and tested by sample dataset. | USN-4 | The programmer design the model to detect the gas leakage | 2 | Medium | Udhaya Sankar  Vishnu Vikash |
| Sprint-5 | Warning Message | USN-5 | Incase if the gas leakage occurs unavoidably the alert messages will be sent to every concerned user within a minute | 1 | High | Pramod  Gabriel  Akshaya |

**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 | 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’s calculate the team’s average velocity (AV) per iteration unit (story points per day)

