

Project Planning Phase

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

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| Date | 18 October 2022 |
| Team ID | PNT2022TMID19226 |
| Project Name | Gas Leakage Monitoring & Alerting System 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 | Registration | USN-1 | As a user, I can register for the application by entering my email, password, and confirming my password. | 2 | Low | Karthikeyan C |
| Sprint-1 | Registration | USN-2 | As a user, I will receive confirmation email once I have registered for the application | 3 | Medium | Hariboobaalan P N |
| Sprint-1 | Registration | USN-3 | As a user, I can log into the application by entering email & password. | 5 | Medium | Kavin P |
| Sprint-1 | Monitoring | USN-4 | As a user, I will enable the supervisor to monitor the gas leakage system status. | 10 | High | Harithaa G |
| Sprint-2 | Notification | USN-5 | As a user, I can get SMS notification. | 10 | High | Harithaa G |
| Sprint-2 | Notification | USN-6 | As a user, I can get alarming alert about gas leakage. | 10 | High | Hariboobaalan P N |
| Sprint-3 | Login | USN-7 | As a user, I can sign up using Facebook login | 2 | Low | Karthikeyan C |
| Sprint-3 | Login | USN-8 | As a user, I can sign up using Google Login. | 2 | Low | Karthikeyan C |
| Sprint-3 | Service Request | USN-9 | As a user, I can request for service in case of any issue with the gas leakage monitoring system. | 8 | Medium | Kavin P |
| Sprint-3 | Service Request | USN-10 | As a user, I can request for scaling up the gas leakage monitoring system. | 8 | Medium | Kavin P |

| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points | Priority | Team Members |
|----------|-------------------------------|-------------------|---|--------------|----------|-------------------|
| Sprint-4 | Monitoring | USN-11 | As a user, I can have mobile application for gas leakage monitoring and alerting system. | 10 | High | Harithaa G |
| Sprint-4 | Monitoring | USN-12 | As a user, I must be able to send control commands to initiate measures in case of gas leakage. | 10 | High | Hariboobaalan P N |

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 6-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).

$$AV = \frac{\text{sprint duration}}{\text{velocity}} = \frac{20}{6} = 3.33$$

Burndown Chart:

