# Project Planning Phase

## Project Planning Template (Product Backlog, Sprint Planning, Stories, Storypoints)

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|---|---|
| Date | 18 October 2022 |
| Team ID | PNT2022TMID21185 |
| Project Name | Hazardous Area monitoring in Industrial Plants powered by IOT |
| 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 |
|---|---|---|---|---|---|
| Sprint-1 | Temperature monitoring | USN-1 | As a user, I need to know the temperature of the Industrial plant. | 4 | High |
| Sprint-1 | Gas Monitoring | USN-2 | As a user, I need the gas composition and/or concentration around me. | 2 | Medium |
| Sprint-1 | Fire Monitoring | USN-3 | As a user,I need to identifiy the presence of flame in the industry. | 4 | High |
| Sprint-1 | PIR Monitoring | USN-4 | As a user,I need to know about security and motion detection. | 2 | High |
| Sprint-2 | IOT dashboard interfacing | USN-5 | As a user, I must be able to view the data using internet. | 4 | High |
| Sprint-3 | Web UI | USN-6 | As a user, I must be able to access data from a website. | 1 | Low |
| Sprint-4 | Mobile UI | USN-7 | As a user, I can view the data log in a Mobile application. | 1 | Low |

**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 | 6 | |
| Sprint-2 | 20 | 6 Days | 31 Oct 2022 | 05 Nov 2022 | 4 | |
| Sprint-3 | 20 | 6 Days | 07 Nov 2022 | 12 Nov 2022 | 2 | |
| Sprint-4 | 20 | 6 Days | 14 Nov 2022 | 19 Nov 2022 | 2 | |

**Velocity:**

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

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

(story points per day)

**Burndown Chart:**