

Project Planning Phase

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

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|---------------|--|
| Date | 11 November 2022 |
| Team ID | PNT2022TMID10328 |
| Project Name | Hazardous Area Monitoring for Industrial Plant Powered by IoT |
| 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 | Installation of Beacons | USN-1 | First the Admin will be installing smart beacons at necessary places. | 15 | High | Vigneshwaran K Premkumar P Raghul G Selvakumar P |
| Sprint-1 | Providing Wearables | USN-1 | The Admin will be providing everyone at the Industry a wearable device. | 5 | Medium | Vigneshwaran K Premkumar P Raghul G Selvakumar P |
| Sprint-2 | Cloud Setup | USN-2 | The smart Beacons will connect with the cloud services. Where we can get the realtime data from the wearable | 20 | High | Vigneshwaran K Premkumar P Raghul G Selvakumar P |
| Sprint-3 | Online Monitoring via Web | USN-3 | Websites will be created and connected with the cloud services. | 20 | High | Vigneshwaran K Premkumar P Raghul G Selvakumar P |
| Sprint-4 | Monitoring via Mobile | USN-4 | Mobile Application will be created and fast sms will be used to alert abnormality to the user. | 20 | High | Vigneshwaran K Premkumar P Raghul G Selvakumar P |

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 | 4 Days | 28 Oct 2022 | 31 Oct 2022 | | 31 Oct 2022 |
| Sprint-2 | 20 | 4 Days | 31 Oct 2022 | 03 Nov 2022 | | 03 Nov 2022 |
| Sprint-3 | 20 | 4 Days | 04 Nov 2022 | 07 Nov 2022 | | 07 Nov 2022 |
| Sprint-4 | 20 | 4 Days | 08 Nov 2022 | 11 Nov 2022 | | 11 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)

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