**Project Planning Phase**

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

|  |  |
| --- | --- |
| Date | 18 October 2022 |
| 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 | S Jerrold Gideon  Jerry Britto J  Ajesh T M Aaron Danaraj F |
| Sprint-1 | Providing Wearables | USN-1 | The Admin will be providing everyone at the Industry a wearable device. | 5 | Medium | S Jerrold Gideon  Jerry Britto J  Ajesh T M Aaron Danaraj F |
| 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 | S Jerrold Gideon  Jerry Britto J  Ajesh T M Aaron Danaraj F |
| Sprint-3 | Online Monitoring via Web | USN-3 | Websites will be created and connected with the cloud services. | 20 | High | S Jerrold Gideon  Jerry Britto J  Ajesh T M Aaron Danaraj F |
| 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 | S Jerrold Gideon  Jerry Britto J  Ajesh T M Aaron Danaraj F |

**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 |  | 29 Oct 2022 |
| Sprint-2 | 20 | 6 Days | 31 Oct 2022 | 05 Nov 2022 |  | 05 Nov 2022 |
| Sprint-3 | 20 | 6 Days | 07 Nov 2022 | 12 Nov 2022 |  | 12 Nov 2022 |
| Sprint-4 | 20 | 6 Days | 14 Nov 2022 | 19 Nov 2022 |  | 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)

