**Project Planning Phase**

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

|  |  |
| --- | --- |
| Date | 28 October 2022 |
| Team ID | PNT2022TMID50805 |
| 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 | IBM Watson IOT platform | USN-1 | Monitoring parameters such as temperature ,gas leakage, noise level, radiation | 15 | High | Sajithra Chandravathy S  Krishna Geetha S  Maanu Sri Durga K  Saparniga P |
| Sprint-2 | Node-Red | USN-2 | Design UI to display the monitored parameters,configure the application to receive the data from cloud | 20 | High | Sajithra Chandravathy S  Krishna Geetha S  Maanu Sri Durga K  Saparniga P |
| Sprint-3 | Python-IDLE 3.7 | USN-4 | Publish the data to the cloud | 20 | High | Sajithra Chandravathy S  Krishna Geetha S  Maanu Sri Durga K  Saparniga P |
| Sprint-4 | Online Monitoring via Web and Application | USN-3 | Mobile Application will be created and fast sms will be used to alert abnormality to the user. Websites will be created and connected with the cloud services. | 20 | High | Sajithra Chandravathy S  Krishna Geetha S  Maanu Sri Durga K  Saparniga 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 | 2 Days | 1 Nov 2022 | 2 Nov 2022 | 2 |  |
| Sprint-2 | 20 | 2 Days | 3 Nov 2022 | 05 Nov 2022 | 2 |  |
| Sprint-3 | 20 | 5 Days | 07 Nov 2022 | 12 Nov 2022 | 6 |  |
| Sprint-4 | 20 | 5 Days | 14 Nov 2022 | 19 Nov 2022 | 6 |  |

**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)



**Burndown Chart**

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