**Project Planning Phase**

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

|  |  |
| --- | --- |
| Date | 06 November 2022 |
| Team ID | PNT2022TMID10221 |
| Project Name | Hazardous Area Monitoring for Industrial Plant Powered by IoT |
| Maximum Marks | 8 Marks |

**Product Backlog, Sprint Schedule, and Estimation: 4 Marks**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sprint** | **Functional Requirement** | **User Story Number** | **User Story / Task** | **Task Points** | **Priority** | **Team Members** |
| Sprint-1 | Installation of Beacons | USN-1 | First the Admin User will be installing smart beacons at necessary places. | 15 | High | Vishva D, Rithikvarshan S  Senthil prabhu K  Sharma O S |
| Sprint-2 | Providing Wearables | USN-2 | The Admin should provide wearable devices to everyone in the industry. | 5 | Medium | Vishva D, Rithikvarshan S  Senthil prabhu K  Sharma O S |
| Sprint-3 | Cloud Setup | USN-3 | The Smart Beacons will be connected to the IBM cloud services where we can get the realtime monitoring data from the wearable gadget. | 20 | High | Vishva D, Rithikvarshan S  Senthil prabhu K  Sharma O S |
| Sprint-4 | Online Monitoring via  Web | USN-4 | Websites should be created and connected with IBM cloud which helps in viewing the realtime data from wearable device in GUI and storing the logs in the database. | 20 | High | Vishva D, Rithikvarshan S  Senthil prabhu K  Sharma O S |
| Sprint-5 | Monitoring via Mobile | USN-5 | To alert the abnormality, Mobile Applications and Mail services are created to receive the alert notification. | 20 | High | Vishva D, Rithikvarshan S  Senthil prabhu K  Sharma O S |

**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 | 3 Days | 06 Nov 2022 | 08 Nov 2022 |  | 08 Nov 2022 |
| Sprint-2 | 20 | 3 Days | 09 Nov 2022 | 11 Nov 2022 |  | 11 Nov 2022 |
| Sprint-3 | 20 | 4 Days | 12 Nov 2022 | 15 Nov 2022 |  | 15 Nov 2022 |
| Sprint-4 | 20 | 4 Days | 16 Nov 2022 | 19 Nov 2022 |  | 19 Nov 2022 |

**Velocity:**

Imagine for a 10-day sprint duration with velocity of team is 20 (points per sprint). Let’s calculate the team’s average velocity (AV) per iteration unit (story points per day)

