**HAZARDOUS AREA MONITORING FOR INDUSTRIAL PLANTS POWERED BY IOT**

**PROJECT PLANNING PHASE**

|  |  |
| --- | --- |
| Date | 02 NOV 2022 |
| Team ID | PNT2022TMID41407 |
| Project Name | Project – Hazardous area monitoring for industrial plants powered by IOT |
| Maximum Marks | 8 Marks |

**TEAM MEMBERS**

MEENA S (620319106035)

GAYATHRI S (620319106023)

MOULISHA R (620319106037)

RITHIKA B (620319106047)

# BACHELOR OF ENGINEERING IN ELECTRONICS AND COMMUNICATION ENGINEERING

**Product Backlog, Sprint Schedule, and Estimation (4 Marks)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **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 | 1 | High | MEENA S  GAYATHRI S  MOULISHA R  RITHIKA B |
| Sprint-1 | Providing Wearables | USN-1 | The Admin will be providing everyone at the Industry a wearable device. |  | Medium | MEENA S  GAYATHRI S  MOULISHA R  RITHIKA B |
| Sprint-2 | Cloud Setup | USN-2 | The smart Beacons will connect with the cloud services. Where we can get the real time data from the wearable | 1 | High | MEENA S  GAYATHRI S  MOULISHA R  RITHIKA B |
| Sprint-3 | Online  Monitoring via  Web | USN-3 | Websites will be created and connected with the cloud services. | 1 | High | MEENA S  GAYATHRI S  MOULISHA R  RITHIKA B |
| **Sprint** | **Functional**  **Requirement (Epic)** | **User**  **Story**  **Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** |
| Sprint-4 | Monitoring via Mobile | USN-4 | Mobile Application will be created and fast sms will be used to alert abnormality to the user. | 1 | High | MEENA S  GAYATHRI S  MOULISHA R  RITHIKA B |

**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 | 23 Oct 2022 | 28 Oct 2022 | 10 | 28 Oct 2022 |
| Sprint-2 | 20 | 6 Days | 30 Oct 2022 | 04 Nov 2022 | 10 | 05 Nov 2022 |
| Sprint-3 | 20 | 6 Days | 07 Nov 2022 | 12 Nov 2022 | 10 | 12 Nov 2022 |
| Sprint-4 | 20 | 6 Days | 13 Nov 2022 | 18 Nov 2022 | 10 | 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)

