**Project Planning Phase**

**Project Planning**

|  |  |
| --- | --- |
| Date | 24 October 2022 |
| Team ID | PNT2022TMID35428 |
| Project Name | Project - INDUSTRY-SPECIFIC INTELLIGENT  FIRE MANAGEMENT SYSTEM |
| Maximum Marks | 8 Marks |

**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 | Sensing | USN-1 | Sensing the environment using the sensors. | 3 | High | Adithya  Ajay  Arvind  Dheeraj  Hariharan |
|  | Operating | USN-2 | Turning on the exhaust fan as well as the fire sprinkler system in cause of fire and gas leakage. | 3 | Medium | Adithya  Ajay  Arvind  Dheeraj  Hariharan |
| Sprint-2 | Sending collected data to the IBM Watson platform | USN-3 | Sending the data of the Sensors to the IBM Watson. | 3 | High | Adithya  Ajay  Arvind  Dheeraj  Hariharan |

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| **Sprint** | **Functional**  **Requirement (Epic)** | **User Story**  **Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** |
|  | Node red | USN-4 | Sending the data from the IBM Watson to the Node red. | 3 | High | Adithya  Ajay  Arvind  Dheeraj  Hariharan |
| Sprint-3 | Storing of sensor data | USN-5 | Storing in Cloudant database. | 2 | Medium | Adithya  Ajay  Arvind  Dheeraj  Hariharan |
|  | Registration | USN-6 | Entering my email and password to verify authentication process. | 1 | Medium | Adithya  Ajay  Arvind  Dheeraj  Hariharan |
|  | Web UI | USN-7 | Monitors the situation of the environment which displays sensor information. | 3 | High | Adithya  Ajay  Arvind  Dheeraj  Hariharan |
| Sprint-4 | Fast SMS Service | USN-8 | Use Fast SMS to Send alert message once the parameters like temperature, flame and gas sensor readings goes beyond the threshold value. | 3 | High | Adithya  Ajay  Arvind  Dheeraj  Hariharan |
|  | Turn ON/OFF the actuators | USN-9 | User can turn off the Exhaust fan as well as the sprinkler system If need in that Situation. | 2 | Medium | Adithya  Ajay  Arvind  Dheeraj  Hariharan |
| **Sprint** | **Functional**  **Requirement (Epic)** | **User Story**  **Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** |
|  | Testing | USN-10 | Testing of project and Final Deliverables. | 1 | Low | Adithya  Ajay  Arvind  Dheeraj  Hariharan |

**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 | 6 | 6 Days | 24 Oct 2022 | 29 Oct 2022 | 6 | 29 Oct 2022 |
| Sprint-2 | 6 | 6 Days | 31 Oct 2022 | 05 Nov 2022 | 6 | 05 Nov 2022 |
| Sprint-3 | 6 | 6 Days | 07 Nov 2022 | 12 Nov 2022 | 6 | 12 Nov 2022 |
| **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-4 | 6 | 6 Days | 14 Nov 2022 | 19 Nov 2022 | 6 | 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)



# AV = 6/6=1

**Burndown Chart:**

A burn down chart is a graphical representation of work left to do versus time. It is often used in agile [software development m](https://www.visual-paradigm.com/scrum/what-is-agile-software-development/)ethodologies such as [Scrum.](https://www.visual-paradigm.com/scrum/scrum-in-3-minutes/) However, burn down charts can be applied to any project containing measurable progress over time.

