**Project Planning Phase**

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

|  |  |
| --- | --- |
| Date | 18 October 2022 |
| Team ID | PNT2022TMID18163 |
| Project Name | Industry specific intelligent fire management system |
| 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 | Hardware or Simulation Software | USN-1 | Using Worwi. Connect Temperature, Flame, Gas sensor to Arduino with python script | 2 | High | Dinesh Anand M  Siva Kumar S  Shiva A  Kasiviswanathan P |
| Sprint-2 | Cloud Software | USN-2 | Create Device in the IBM Watson IOT Platform and link it to Node-red | 2 | High | Dinesh Anand M  Siva Kumar S  Shiva A  Kasiviswanathan P |
| Sprint-3 | MIT app invertor or Website | USN-3 | Develop a Mobile application using MIT app invertor or Web UI | 2 | High | Dinesh Anand M  Siva Kumar S  Shiva A  Kasiviswanathan P |
| Sprint-4 | linking | USN-4 | Link Device, IBM cloud and the developed application | 2 | High | Dinesh Anand M  Siva Kumar S  Shiva A  Kasiviswanathan P |
| Sprint-4 | Dashboard | USN-5 | Design the Modules and Test the mobile application | 2 | High | Dinesh Anand M  Siva Kumar S  Shiva A  Kasiviswanathan 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 | 6 Days | 15 Nov 2022 | 21 Nov 2022 | 20 | 29 Nov 2022 |
| Sprint-2 | 20 | 6 Days | 23 Nov 2022 | 29 Nov 2022 | 20 | 30 Nov 2022 |
| Sprint-3 | 20 | 6 Days | 1 Dec 2022 | 6 Dec 2022 | 20 | 8 Dec 2022 |
| Sprint-4 | 20 | 6 Days | 6 Dec 2022 | 12 Dec 2022 | 20 | 14 Dec 2022 |
|  |  |  |  |  |  |  |

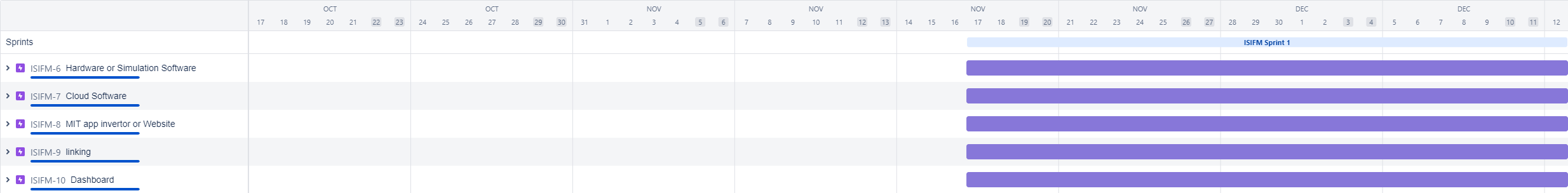
**Velocity:**

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)



**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](https://www.visual-paradigm.com/scrum/what-is-agile-software-development/) methodologies 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.



[**https://www.visual-paradigm.com/scrum/scrum-burndown-chart/**](https://www.visual-paradigm.com/scrum/scrum-burndown-chart/)

[**https://www.atlassian.com/agile/tutorials/burndown-charts**](https://www.atlassian.com/agile/tutorials/burndown-charts)

**Reference:**

[**https://www.atlassian.com/agile/project-management**](https://www.atlassian.com/agile/project-management)

[**https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software**](https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software)

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[**https://www.atlassian.com/agile/tutorials/burndown-charts**](https://www.atlassian.com/agile/tutorials/burndown-charts)