Project Planning Phase

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

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| Date | 09 Nov 2022 |
| Team ID | PNT2022TMID20931 |
| Project Name | Project – Industry 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

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| **Sprint** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** |
| Sprint-1 | Registration | USN-1 | As a user, I can register for the application by entering my email, password, and confirming my password. | 2 | High | Anuratha Rahavi L R  Harini M S  Ganapriya N V  Sneha Angeline P |
| Sprint-1 |  | USN-2 | As a user, I will receive confirmation email once I have registered for the application | 1 | High | Anuratha Rahavi L R  Harini M S  Ganapriya N V  Sneha Angeline P |
| Sprint-2 |  | USN-3 | As a user, I can register for the application through Facebook | 2 | Low | Anuratha Rahavi L R  Harini M S  Ganapriya N V  Sneha Angeline P |
| Sprint-1 |  | USN-4 | As a user, I can register for the application through Gmail | 2 | Medium | Anuratha Rahavi L R  Harini M S  Ganapriya N V  Sneha Angeline P |
| Sprint-1 | Login | USN-5 | As a user, I can log into the application by entering email & password | 1 | High | Anuratha Rahavi L R  Harini M S  Ganapriya N V  Sneha Angeline P |

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| **Sprint** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** |
| Sprint 1 | Objective | USN-6 | As a system, the fire sensor should detect the fire | 8 | High | Anuratha Rahavi L R  Harini M S  Ganapriya N V  Sneha Angeline P |
| Sprint 1 | Features | USN-7 | As a system, the fire sensor value should be displayed in a LED screen | 2 | Low | Anuratha Rahavi L R  Harini M S  Ganapriya N V  Sneha Angeline P |
| Sprint 1 | Features | USN-8 | As a system, as soon as the detected fire reaches the threshold level, the red color LED should be turned ON | 5 | High | Anuratha Rahavi L R  Harini M S  Ganapriya N V  Sneha Angeline P |
| Sprint 1 | Features | USN-9 | As a system, as soon as the detected fire reaches the threshold level, the siren should be turned ON | 5 | High | Anuratha Rahavi L R  Harini M S  Ganapriya N V  Sneha Angeline P |
| Sprint 2 | Focus | USN-10 | As a system, it should send the location where the fire is detected | 8 | High | Anuratha Rahavi L R  Harini M S  Ganapriya N V  Sneha Angeline P |
| Sprint 2 | Focus | USN-11 | As a system, it should also send the alerting SMS to the registered phone number | 2 | Low | Anuratha Rahavi L R  Harini M S  Ganapriya N V  Sneha Angeline P |
| Sprint 2 | Features | USN-12 | As a system, the fire alarm should detect automatically when the fire accident is held | 5 | Medium | Anuratha Rahavi L R  Harini M S  Ganapriya N V  Sneha Angeline P |
| Sprint 2 | Features | USN-13 | As a system, it will indicate the fire accident is closed in the LCD screen and send SMS to the registered mobile number | 5 | Medium | Anuratha Rahavi L R  Harini M S  Ganapriya N V  Sneha Angeline P |
| Sprint 3 | Data transfer | USN-14 | As a program, it should retrieve the API key of the IBM cloud to send the details of the system | 2 | Low | Anuratha Rahavi L R  Harini M S  Ganapriya N V  Sneha Angeline P |

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| **Sprint** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** |
| Sprint 3 | Data Tranfer | USN -15 | As a cloud system, it should send the data of the sensor values along with latitudes and longitudes to the IBM cloud | 5 | Medium | Anuratha Rahavi L R  Harini M S  Ganapriya N V  Sneha Angeline P |
| Sprint 3 | Data transfer | USN-16 | As a cloud system, the IBM cloud should send the data to Node-red | 2 | Medium | Anuratha Rahavi L R  Harini M S  Ganapriya N V  Sneha Angeline P |
| Sprint 3 | Data transfer | USN-17 | As a system, it should collect the data from the Node-red and give it to the backend of the MIT app | 3 | Medium | Anuratha Rahavi L R  Harini M S  Ganapriya N V  Sneha Angeline P |
| Sprint 3 | Data Transfer | USN-18 | As an application, it should display the details of the temperature level and other detail to the user through the frontend of the MIT app. | 8 | High | Anuratha Rahavi L R  Harini M S  Ganapriya N V  Sneha Angeline P |
| Sprint 4 | Registration | USN-19 | A a user, I must first register my email and mobile number in the website | 2 | High | Anuratha Rahavi L R  Harini M S  Ganapriya N V  Sneha Angeline P |
| Sprint 4 | Registration | USN-20 | As a user, I must receive confirmation mail and SMS on registration | 2 | Medium | Anuratha Rahavi L R  Harini M S  Ganapriya N V  Sneha Angeline P |
| Sprint 4 | Login | USN-21 | As a user, I can login into the web application through email and pasword | 3 | High | Anuratha Rahavi L R  Harini M S  Ganapriya N V  Sneha Angeline P |
| Sprint 4 | Dashboard | USN-22 | As a user, I can access the dashboard and make use of available resources | 2 | Medium | Anuratha Rahavi L R  Harini M S  Ganapriya N V  Sneha Angeline P |
| Sprint 4 | Focus | USN-23 | As a user, I must receive an SMS once the fire is detected | 5 | High | Anuratha Rahavi L R  Harini M S  Ganapriya N V  Sneha Angeline P |

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| **Sprint** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** |
| Sprint 4 | Allocation | USN-24 | As an admin, I must receive information about the fire accident along with location and share exact location and route to the person | 3 | High | Anuratha Rahavi L R  Harini M S  Ganapriya N V  Sneha Angeline P |
| Sprint 4 | Allocation | USN-25 | As an admin, I must allot particular person to look after the fire accident in a particular location | 3 | High | Anuratha Rahavi L R  Harini M S  Ganapriya N V  Sneha Angeline P |

# Project Tracker, Velocity & Burndown Chart: (4 Marks)

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| **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 | 9 Nov 2022 | 15 Nov 2022 | 20 | 09 Nov 2022 |
| Sprint-2 | 20 | 6 Days | 16 Nov 2022 | 21 Nov 2022 |  |  |
| Sprint-3 | 20 | 6 Days | 22 Nov 2022 | 27 Nov 2022 |  |  |
| Sprint-4 | 20 | 6 Days | 28 Nov 2022 | 4 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)

