# PROJECT PLANNING PHASE

| Date | 22 October 2022 |
|---|---|
| Team ID | PNT2022TMID48307 |
| Project Name | Industry specific intelligent fire management system |
| Maximum Marks | 8 Marks |

### PRODUCT BACKLOG, SPRINT SCHEDULE AND ESTIMATION:

| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points | Priority | Team Members |
|---|---|---|---|---|---|---|
| Sprint-1 | Objective | USN-1 | As a system, the fire sensor should detect the Fire | 8 | High | Harikara Sudharsan Perumal |
| Sprint-1 | Features | USN-2 | As a system, the fire sensor values should be displayed in a LED screen | 2 | Low | Preetha Thenmozhi |
| Sprint-1 | Features | USN-3 | As a system, as soon as the detected fire reaches the threshold level, the red color LED should be turned ON. | 5 | High | Perumal Preetha |
| Sprint-1 | Features | USN-4 | As a system, as soon as the detected fire reaches the threshold level, the siren should be turned ON. | 5 | High | Harikara Sudharsan Thenmozhi |
| Sprint-2 | Focus | USN-5 | As a system, it should send the location where the fire is detected | 8 | High | Harikara Sudharsan Preetha |
| Sprint-2 | Focus | USN-6 | As a system, it should also send the alerting SMS to the registered phone number | 2 | Low | Preetha Thenmozhi |

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|---|---|---|---|---|---|---|
| Sprint-2 | Features | USN-7 | As a system, the fire alarm should detect automatically when the fire accident is held | 5 | Medium | Harikara Sudharsan Preetha |
| Sprint-2 | Features | USN-8 | 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 | Thenmozhi Perumal |
| Sprint-3 | Data Transfer | USN-9 | As a program, it should retrieve the API key of the IBM cloud to send the details of the system. | 2 | Low | Harikara Sudharsan Perumal |
| Sprint-3 | Data Transfer | USN-10 | As a system, it should send the data of sensor values along with latitudes and longitudes to the IBM cloud | 5 | Medium | Preetha Thenmozhi |
| Sprint-3 | Data Transfer | USN-11 | As a cloud system, the IBM cloud should send the data to NodeRed | 2 | Medium | Perumal Preetha |
| Sprint-3 | Data Transfer | USN-12 | As a system, it should collect the data from the NodeRed and give it to the backend of the mit app. | 3 | Medium | Thenmozhi Preetha |
| Sprint-3 | Data Transfer | USN-13 | As an application, it should display the details of the temperature level and other details to the user through the frontend of the mit app. | 8 | High | Harikara Sudharsan Thenmozhi |
| Sprint-4 | Registration | USN-14 | As a user, I must first register my email and mobile number in the website | 2 | High | Perumal Thenmozhi |

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|--------|------|------|------|------|------|------|
| Sprint-4 | Registration | USN-15 | As a user, I must receive confirmation mail and SMS on registration | 2 | Medium | Harikara Sudharsan Perumal |
| Sprint-4 | Login | USN-16 | As a user, I can login into the web application through email and password. | 3 | High | Thenmozhi Preetha |
| Sprint-4 | Dashboard | USN-17 | As a user, I can access the dashboard and make use of available resources. | 2 | Medium | Preetha Perumal |
| Sprint-4 | Focus | USN-18 | As a user, I must receive an SMS once the fire is detected. | 5 | High | Thenmozhi Harikara Sudharsan |
| Sprint-4 | Allocation | USN-19 | 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 | Preetha Harikara Sudharsan |
| Sprint-4 | Allocation | USN-20 | As an admin, I must allot particular person to look after the fire accident in a particular location. | 3 | High | Perumal Thenmozhi |

**PROJECT  TRACKER,  VELOCITY   &  BURNDOWN  CHART :**

| 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 | 24 Oct 2022 | 29 Oct 2022 | 20 | 29 Oct 2022 |
| Sprint-2 | 20 | 6 Days | 31 Oct 2022 | 05 Nov 2022 | 20 | 05 Nov 2022 |
| Sprint-3 | 20 | 6 Days | 07 Nov 2022 | 12 Nov 2022 | 20 | 12 Nov 2022 |
| Sprint-4 | 20 | 6 Days | 14 Nov 2022 | 19 Nov 2022 | 20 | 19 Nov 2022 |

**VELOCITY:**

$$AV = \frac{sprint\ duration}{velocity} = \frac{20}{10} = 2$$