**Project Planning Phase**

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

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| Date | 13 November 2022 |
| Team ID | PNT2022TMID27896 |
| Project Name | Emerging Methods For Early Detection of forest Fires |
| 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 | Detect Aircraft Fires | USN-1 | Which might not be apparent to the crew until they have developed to an extend which make their successful control difficult. | 10 | Medium | Gopinathan.M  Gowtham.V |
| Sprint-1 | Potential Ignition | USN-2 | This system are based upon both heat and smoke sensing. | 10 | Medium | Jaisri.S  Anukeerthana.G |
| Sprint-2 | IR Detectors | USN-3 | This method allows them to detect flames within four milliseconds.Some UV detectors incorporate a three-second delay due to the potential for accidental triggers from things such as lightening. | 5 | High | Jaisri.S  Anukeerthana.G  Gopinathan.M  Gowtham.V |
| Sprint-2 | Notification devices | USN-4 | Speakers or horns or they can be a combination unit which provides a strobe light in addition to the speaker. | 5 | High | Gopinathan.M  Gowtham.V |
| Sprint-2 | Optical Detectors | USN-5 | These detection devices use optical sensors to detect when flames are present. | 2 | Medium | Jaisri.S  Anukeerthana.G |
| Sprint-2 | Flame Detectors | USN-6 | Flame detectors are designed to respond to the presence of a flame or fire,or the by-product of fire. | 6 | Medium | Jaisri.S |
| Sprint-2 | Receiving Sensor Data | USN-7 | The gateway transmits the data back via satellite (in an optimised manner)to a cloud platform or dashboard. | 2 | Low | Anukeerthana.G |
| Sprint-3 | CO2 Sensors | USN-8 | It can use a network of AI CO2 and temperature sensors of forest fire detection. | 5 | High | Gowtham.V |
| Sprint-3 | LoRaWAN Satellite Gateway | USN-9 | It is deployed,preferably in an elevated location. | 5 | Medium | Gopinathan.M |
| Sprint-3 | Appliance Circuit | USN-10 | Appliances are controlled by the fire alarm control unit(FACU) using a notification appliance circuit(NAC). | 5 | Medium | Gowtham.V  Gopinathan.M |
| Sprint-4 | Audible Notification | USN-11 | Audible notification can consist of either tones and a voice message,or just tones. | 10 | High | Jaisri.S  Anukeerthana.G  Gowtham.V  Gopinathan.M |
| Sprint-4 | Visual Notification | USN-12 | The notification appliances that create these visual signals can be just a strobe or can be a combination speaker-strobe or horn-strobe | 10 | High | Jaisri.S  Anukeerthana.G |