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

| Date | 18 October 2022 |
|---|---|
| Team ID | PNT2022TMID30287 |
| Project Name | Machine Learning-Based Predictive Analytics for Aircraft Engine. |
| Maximum Marks | 4 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 | Registration | USN-1 | As a user, I can register for the application by entering my email, password, and confirming my password. | 3 | High | Nawin D R |
| Sprint-1 | | USN-2 | As a user, I will receive confirmation email once I have registered for the application. | 1 | High | SelvaVarshini S |
| Sprint-1 | | USN-3 | As a user, I can register for the application through Facebook, Instagram, other social Media. | 2 | Low | Priyadharshini K |
| Sprint-1 | | USN-4 | As a user, I can register for the application through Gmail. | 2 | Medium | Dheebakraj A |
| Sprint-2 | Login | USN-5 | As a user, I can log into the application by entering email & password. | 1 | High | Priyadharshini K |
| Sprint-2 | Dashboard | USN-6 | As a user, I can navigate through different pages using the dashboard. | 3 | High | Dheebakraj A |

| Sprint-2 | Search | USN-7 | As a user, I can search for flights for different locations with proper engine condition. | 4 | Hi | Nawin D R |
|---|---|---|---|---|---|---|
| Sprint-2 | View | USN-8 | As a user, I can view the details of aircraft engine. | 3 | High | SelvaVarshini S |
| Sprint-3 | Receive Notifications | USN-9 | As a user, I will receive notifications about the malfunction in aircraft engine. | 4 | Medium | Priyadharshini K |
| Sprint-3 | Track | USN-10 | As a user, I can track the location of the aircraft. | 2 | Medium | Dheebakraj A |
| Sprint-3 | GPS | USN-11 | As an admin, I will need the location of aircraft. | 4 | High | Nawin D R |
| Sprint-4 | Analyze | USN-12 | As an admin, I will analyze the given dataset | 3 | High | SelvaVarshini S |
| Sprint-4 | Predict | USN-13 | As an admin, I will predict the aircraft engine failure. | 4 | High | Nawin D R |

## 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 | 08 | 6 Days | 24 Oct 2022 | 29 Oct 2022 | | |
| Sprint-2 | 11 | 6 Days | 31 Oct 2022 | 05 Nov 2022 | | |
| Sprint-3 | 10 | 6 Days | 07 Nov 2022 | 12 Nov 2022 | | |
| Sprint-4 | 7 | 6 Days | 14 Nov 2022 | 19 Nov 2022 | | |

# Velocity:

**Average Velocity for sprint 1:**

**AV = 08/6 = 1.3**

**Average Velocity for sprint 2:**

**AV = 11/6 = 1.8**

**Average Velocity for sprint 3:**

**AV = 10/6 = 1.6**

**Average Velocity for sprint 4:**

**AV = 7/6 = 1.1**

**Burndown chart**