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

| Date | 26 October 2022 |
|---|---|
| Team ID | PNT2022TMID02503 |
| Project Name | Project – Machine Learning Based Vehicle Performance Analyzer |
| 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 | 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. | High | Sai Aravindh , Saifudeen |
| | | USN-2 | As a user, I will receive confirmation email once I have registered for the application | High | Sai Roshan,Sanjay |
| | | USN-3 | As a user, I can register for the application through Facebook | Low | Sai Aravindh, Sanjay |
| | | USN-4 | As a user, I can register for the application through Gmail | Medium | Saifudeen,Sai Roshan |
| Sprint 2 | Login | USN-5 | As a user, I can log into the application by entering email & password | High | Sai Aravindh,Saifudeen |
| | Dashboard | USN-6 | As a user, I can view my profile and update my details | Medium | Sai Aravindh , Sanjay |
| | | USN-7 | As a user, I can view all images uploaded | High | Saifudeen,Sai Roshan |
| | | USN-8 | As a user, I can change my password | High | Sanjay, Sai Roshan |
| Sprint-3 | Image Capturing | USN-9 | As a user, I can capture images of hand gestures made by me | High | Saifudeen,Sai Roshan |

| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Priority | Team Members |
|---|---|---|---|---|---|
| | Image Processing | USN-10 | In the application, the captured images are processed to identify the hand gesture | High | Saifudeen,Sanjay |
| | Data Storage | USN-11 | In the application radiology images uploaded by the user are stored using a database | High | Sai Aravindh,Saifudeen |
| Sprint-4 | Sterile Browsing | USN-12 | Depending on the different gesture inputs different operations are performed on the input image | High | Sanjay,Sai Roshan |
| | Displaying the operations performed | USN-13 | Once the model analyses the gesture, the prediction with operation applied on the image is showcased on the user interface | High | Sai Aravindh,Sai Roshan |

**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 | 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:**

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)

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