Project Planning Phase

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

|  |  |
| --- | --- |
| Date | 18 October 2022 |
| Team ID | PNT2022TMID10060 |
| Project Name | Flight Delay Prediction Using Machine Learning |
| 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** | **Story Points** | **Priority** | **Team Members** |
| Sprint-1 | Data Collection and Pre-processing | USN-1 | As a user, I can’t interact anything. Waiting is user’s task. User can listen the relationship exist between the various attributes of data by  presentation of developer | 2 | high | Mahendran D, Praveen Kumar |
| Sprint-1 | Model Building | USN-2 | As a user, I can predict flight delay by various developed ML models by console | 1 | high | Mahendran D Praveen Kumar |
| Sprint-2 | Model Evaluation | USN-3 | As a user, I can predict flight delay by best Model in various developed ML model by console | 2 | high | Mahendran D Praveen Kumar |
| Sprint-2 | Model Deployment on IBM Cloud using IBM  Watson | USN-4 | As a user, I can use the model by requesting the deployed model on Cloud | 1 | Medium | Mahendran D Praveen Kumar |
| Sprint-2 | Basic user interaction Dashboard | USN-5 | As a user, I can use the model or prediction from model by interacting with dashboard | 2 | high | Mahendran D, Manikandan |
| Sprint-3 | Improved Dashboard and GUI | USN-6 | As a user, I can use the model or prediction from model by interacting with improved dashboard | 1 | Medium | Manikandan Mahendran D |
| Sprint-3 | Registration | USN-7 | As a user, I can register for the application by entering my email, password, and confirming my password. | 2 | High | Manikandan, Krishna Kumar |
| Sprint-3 | Registration | USN-7 | As a user, I can register for the application by entering my email, password, and confirming my password. | 2 | High | Manikandan, Krishna Kumar |
| Sprint-3 | Login | USN-8 | As a user, I can log into the application by entering email & password and I can register  .login to the application through Gmail | 2 | Medium | Manikandan, Krishna Kumar |
| Sprint-4 | Raise query/complaint and give feedback | USN-9 | As a user, I can raise complaint or query and give feedback | 1 | Medium | Manikandan, Krishna Kumar |
| Sprint-4 | Improve overall web app | USN-10 | As a user, I can user revised and improved version of web application | 1 | High | Manikandan, Krishna Kumar, Mahendran D,  Praveen Kumar |

# 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 | 31 Oct 2022 |
| Sprint-2 | 20 | 6 Days | 31 Oct 2022 | 05 Nov 2022 | 20 | 07 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)



# Burndown Chart:

A burn down chart is a graphical representation of work left to do versus time. It is often used in agile [software development](https://www.visual-paradigm.com/scrum/what-is-agile-software-development/) methodologies such as [Scrum](https://www.visual-paradigm.com/scrum/scrum-in-3-minutes/). However, burn down charts can be applied to any project containing measurable progress over time.

