**Project Planning Phase**

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

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| --- | --- |
| Date | 18 October 2022 |
| Team ID | PNT2022TMID24528 |
| Project Name | Developing A Flight Delay Prediction Model 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 | KALPANA DEVI S  CHARU LATHA G |
| Sprint-1 | Model Building | USN-2 | As a user, I can predict flight delay by various developed ML models by console | **1** | high | CHELLA LAKSHMI LASYA  SAMBAREDDY RUCHITHA |
| 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 | KALPANA DEVI S  CHARU LATHA G |
| 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 | CHELLA LAKSHMI LASYA  SAMBAREDDY RUCHITHA |
| 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 | KALPANA DEVI S  CHARU LATHA G |
| 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 | CHELLA LAKSHMI LASYA  SAMBAREDDY RUCHITHA |
| 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 | KALPANA DEVI S  CHARU LATHA G |
| Sprint-3 | Registration | USN-7 | As a user, I can register for the application through Gmail | 2 | High | CHELLA LAKSHMI LASYA  SAMBAREDDY RUCHITHA |
| 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 | CHELLA LAKSHMI LASYA  SAMBAREDDY RUCHITHA |
| Sprint-4 | Raise query/complaint and give feedback | USN-9 | As a user, I can raise complaint or query and give feedback | 1 | Medium | KALPANA DEVI S  CHARU LATHA G |
| Sprint-4 | Improve overall web app | USN-10 | As a user, I can user revised and improved version of web application | 1 | High | KALPANA DEVI S  CHARU LATHA G  CHELLA LAKSHMI LASYA  SAMBAREDDY RUCHITHA |

**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 | 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 |
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**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.

