Project Planning Phase

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

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| Date | 02 November 2022 |
| Team ID | PNT2022TMID32458 |
| 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

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| **Sprint** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** |
| Sprint-1 | Data Collection | USN-1 | Data is collected in the form of dataset for processing. | 2 | High | SUNDARESVAR P, SUREN GOPAL D, SUNDARESAN M, THULASI VEERA RAGAVAN L |
| Sprint-1 | Data Cleaning | USN-2 | Duplicate values in the data is cleaned. | 3 | High | SUNDARESVAR P, SUREN GOPAL D, SUNDARESAN M, THULASI VEERA RAGAVAN L |
| Sprint-1 | Outlier Detection | USN-3 | Outliers in the dataset are removed. | 2 | High | SUNDARESVAR P, SUREN GOPAL D, SUNDARESAN M, THULASI VEERA RAGAVAN L |

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| **Sprint** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** |
| Sprint-1 | Data Training | USN-4 | Data is trained to build a model. | 2 | Medium | SUNDARESVAR P, SUREN GOPAL D, SUNDARESAN M, THULASI VEERA RAGAVAN L |
| Sprint-1 | Data Prediction | USN-5 | Result is predicted based on the trained data. | 3 | Medium | SUNDARESVAR P, SUREN GOPAL D, SUNDARESAN M, THULASI VEERA RAGAVAN L |
| Sprint-2 | Model Building | USN-6 | Model is built using several algorithms. | 2 | Medium | SUNDARESVAR P, SUREN GOPAL D, SUNDARESAN M, THULASI VEERA RAGAVAN L |
| Sprint-2 | Model Training | USN-7 | Model is trained . | 2 | High | SUNDARESVAR P, SUREN GOPAL D, SUNDARESAN M, THULASI VEERA RAGAVAN L |
| Sprint-2 | Model Testing | USN-8 | Model is tested. | 2 | High | SUNDARESVAR P, SUREN GOPAL D, SUNDARESAN M, THULASI VEERA RAGAVAN L |
| Sprint-2 | Model Deployment | USN-9 | Model is deployed in IBM Cloud. | 2 | High | SUNDARESVAR P, SUREN GOPAL D, SUNDARESAN M, THULASI VEERA RAGAVAN L |

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| **Sprint** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** |
| Sprint-3 | Login Page | USN-10 | A login page is created . | 3 | High | SUNDARESVAR P, SUREN GOPAL D, SUNDARESAN M, THULASI VEERA RAGAVAN L |
| Sprint-3 | Home Page | USN-11 | A home page is created. | 4 | High | SUNDARESVAR P, SUREN GOPAL D, SUNDARESAN M, THULASI VEERA RAGAVAN L |
| Sprint-3 | Results Page | USN-12 | A separate page is created in which the information about the flights are displayed. | 3 | High | SUNDARESVAR P, SUREN GOPAL D, SUNDARESAN M, THULASI VEERA RAGAVAN L |
| Sprint-4 | Application Building | USN-14 | An application is built with a basic login page and home page. | 2 | Medium | SUNDARESVAR P, SUREN GOPAL D, SUNDARESAN M, THULASI VEERA RAGAVAN L |
| Sprint-4 | Application Testing | USN-15 | The developed application is tested. | 3 | Medium | SUNDARESVAR P, SUREN GOPAL D, SUNDARESAN M, THULASI VEERA RAGAVAN L |
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# Project Tracker, Velocity & Burndown Chart: (4 Marks)

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| **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 |  | 29 Oct 2022 |
| Sprint-2 | 20 | 6 Days | 31 Oct 2022 | 05 Nov 2022 |  | 05 Nov 2022 |
| Sprint-3 | 20 | 6 Days | 07 Nov 2022 | 12 Nov 2022 |  | 07 Nov 2022 |
| Sprint-4 | 20 | 6 Days | 14 Nov 2022 | 19 Nov 2022 |  | 14 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)

Sprint 1 AV = Sprint duration/velocity =

Sprint 2 AV = Sprint duration/velocity =

Sprint 3 AV = Sprint duration/velocity =

Sprint 4 AV = Sprint duration/velocity =

# Burndown Chart:

