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

Date	18 October 2022
Team ID	PNT2022TMID29843
Project Name	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	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirmingmy password.	2	High	Sridhar K V Sriram S M Tamilarasan D Vittal J S
Sprint-1	Login	USN-2	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	Sridhar K V Sriram S M Tamilarasan D
Sprint-2	Basic user interaction Dashboard	USN-3	As a user, I can log into the application by entering email & password	1	Medium	Sridhar K V Sriram S M Tamilarasan D Vittal J S
Sprint-2	Improved Dashboard and GUI	USN-4	As a user, I can use the model or predictionfrom model by interacting with improved dashboard	2	High	Sridhar K V Sriram S M
Sprint-3	Model Building	USN-5	As a user, I will receive confirmation email once I have registered for the application	1	Medium	Sridhar K V Sriram S M Tamilarasan D Vittal J S

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Data Collection and Pre-processing	USN-6	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	Sridhar K V Sriram S M Vittal J S
Sprint-3	Model Deployment on IBM Cloud using IBM Watson	USN-7	As a user, I can register for the application through Gmail	2	High	Sridhar K V Sriram S M Tamilarasan D Vittal J S
Sprint-4	Raise query/complaint and give feedback	USN-8	As a user, I can raise complaint or query and give feedback	1	Medium	Sridhar K V Sriram S M Tamilarasan D Vittal J S
Sprint-4	Improve overall web app	USN-9	As a user, I can user revised and improved version of web application	2	High	Sridhar K V Sriram S M Tamilarasan D Vittal J S

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)

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

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 methodologies suchas Scrum. However, burn down charts can be applied to any project containing measurable progress over time.

Burndown Chart