Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID35251
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	User Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	8	High	Ramya, Renuka
Sprint - 2	User Confirmation	USN-3	As a user, I will receive confirmation email once I have registered for the application	2	Medium	Akshaya, Sneha
Sprint - 1	User login	USN-4	As a user, I can log into the application by entering email & password	3	High	Renuka, Sneha
Sprint - 2	Signup or login via Gmail	USN-2,5	As a user, I can register or login for the application through Gmail	2	Low	Akshaya
Sprint - 1	Analyse the dataset	USN-0	Preprocessing is done on the dataset from IBM	3	Medium	Ramya, Akshaya
Sprint - 2	User dashboard	USN-6	As a user,I can find the average delay time of my flight using name or number	21	High	Ramya, Renuka
Sprint - 1	Search Flight	USN-6	As a passenger,I can search for alternate flights	5	High	Ramya, Renuka
Sprint - 3	Predict delay time	USN -7	As a user, I can click ‘Predict delay’ to get the predicted delay time after entering flight details	34	High	Akshaya, Sneha
Sprint - 2	Predict Delay Accuracy	USN - 8	As a user, I can see how reliable and accurate the prediction is.	3	Medium	Ramya, Renuka
Sprint - 2	Notification	USN-9	As a user,I will get notified if my flight is going to be delayed	2	Low	Akshaya, Renuka

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint - 3	Feedback	USN-10	As a co-user, I want to help other users about the application through my ratings	3	Low	Sneha, Ramya
Sprint - 3	User Logout	USN-11	As a user, I do not want to stay logged in for long	1	Medium	Sneha, Renuka
Sprint - 4	Application Testing		The project is tested to guarantee that the system is successfully built and meets all requirements	13	High	Ramya, Renuka
Sprint - 4	Deployment		The system is deployed on the IBM cloud	13	High	Akshaya, Sneha

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	19	6 Days	24 Oct 2022	29 Oct 2022	To be filled	30 Oct 2022
Sprint-2	30	6 Days	31 Oct 2022	05 Nov 2022	To be filled	06 Nov 2022
Sprint-3	38	6 Days	07 Nov 2022	12 Nov 2022	To be filled	13 Nov 2022
Sprint-4	26	6 Days	14 Nov 2022	19 Nov 2022	To be filled	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)

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

Note: Velocity and Burndown chart to be updated after each sprint.