Project Planning Phase

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

Date	29 October 2022
Team ID	PNT2022TMID08017
Project Name	Developing A Flight Delay Prediction Model Using Machine Learning
Maximum Marks	8 Marks

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

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 confirming my password.	2	High	Sathish, Sheik Hassain Sadiq
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	Sathish, Sheik Hassain Sadiq
Sprint-2		USN-3	As a user, I can register for the application through Gmail	2	Medium	Varun, Udaya Balaji
Sprint-1	Login	USN-4	As a user, I can log into the application by entering email & password	1	High	Sathish, Sheik Hassain Sadiq
Sprint-2	Dashboard	USN-5	As a user,i can fill the flight details for which i want to get the prediction	3	High	Varun, Udaya Balaji
Sprint-2	Prediction	USN-6	As a user i click on start to predict the delay	3	High	Varun, Udaya Balaji

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3		USN-7	As a user i give details and wait for the prediction	3	High	Sathish, Sheik Hassain Sadiq
Sprint-3	Notification	USN-8	As a user i get notified about the delay	3	High	Sathish, Sheik Hassain Sadiq
Sprint-4	Access	USN-9	As a administrator, I can access and change the database and model	2	Medium	Varun, Udaya Balaji
Sprint-4	Notification	USN-10	As a user i get a mail about the delay	2	Medium	Varun, Udaya Balaji

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	5	6 Days	24 Oct 2022	29 Oct 2022	5	29 Oct 2022
Sprint-2	6	6 Days	31 Oct 2022	05 Nov 2022	6	05 Nov 2022
Sprint-3	5	6 Days	07 Nov 2022	12 Nov 2022	5	12 Nov 2022
Sprint-4	4	6 Days	14 Nov 2022	19 Nov 2022	4	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)

$$AV = \frac{\text{Sprint duration}}{\text{Velocity}} = \frac{24}{4} = 6$$

Burndown Chart:

A burndown chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.