Project Planning Phase

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

Date	22 October 2022
Team ID	PNT2022TMID44312
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 and Login	USN-1	As a new user, I can register for the application by entering my email and my password.	10	High	Pravena S
Sprint-2		USN-2	As a user, I will receive confirmation email once I have registered for the application	10	Medium	Parkkavi T Pravena S
Sprint-1		USN-3	As a user, I can login into the application by entering the registered email-id and password	10	High	Vaishnavi A Sally Jemimah J
Sprint-2	Admin Panel	USN-4	As an admin, I can authenticate the registration and login credentials of the passengers	10	High	Pravena S Vaishanvi A Parkkavi T Sally Jemimah J
Sprint-3	Arrival and Departure time of flights	USN-5	As a user, I can find all the details of a specific flight with its number or name	10	High	Pravena S Vaishanvi A Parkkavi T Sally Jemimah J
Sprint-3		USN-6	As a user, I can find exactly how long the flight will be delayed	10	High	Pravena S Vaishanvi A Parkkavi T Sally Jemimah J
Sprint-4	Helpdesk	USN-7	As a customer care executive, I can provide the contact details of the airlines	05	Medium	Vaishnavi A Pravena S

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-4		USN-8	As a passenger, I can find alternative flights to the destination that are available	05	High	Parkkavi T Sally Jemimah J
Sprint-4	Feedback	USN-9	As a user, I can provide my suggestions and feedback for the improvement of the application	10	Medium	Sally Jemimah J Parkkavi T Vaishnavi A

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	05 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:

We have a 24-day sprint duration, and the velocity of the team is 20 (points per sprint). Thus the team's average velocity (AV) per iteration unit (story points per day) is as follows

$$AV = \text{Sprint duration} / \text{Velocity}$$

$$= 24/20$$

$$= 1.2$$

Average velocity = 6/20 = 0.3 (Sprint 1)

Average velocity = 6/20 = 0.3 (Sprint 2)

Average velocity = 6/20 = 0.3 (Sprint 3)

Average velocity = 6/20 = 0.3 (Sprint 4)

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 such as Scrum.