Project Planning Phase

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

Date	3 November 2022
Team ID	PNT2022TMID10242
Project Name	Project – Flight Delay Prediction 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 confirming my password.	2	High	Chandru T
Sprint-1	User confirmation	USN-2	As a user, I will receive confirmation email once I have registered for the application	1	Medium	Abdul Kareem J, Chandru T
Sprint-1	Login	USN-3	As a user, I can log into the application by entering email & password	1	High	Abdul kareem J
Sprint-2	Analyze	USN-4	I can analyze the dataset	2	Medium	Chandru P,Dinesh kumar B
Sprint-3	Develop and train	USN-5	I can develop and train the model to predict the flight delay	2	High	Ebin Sunny
Sprint-4	Application	USN-6	Shows the flight details	2	High	Chandru T,Abdul kareem J,Chandru P,Dinesh Kumar B,Ebin Sunny

Project Tracker (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	04 Nov 2022	20	04 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	11 Nov 2022	20	11 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

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

Sprint 1: 1 user stories X 20 story points = 20
Sprint 2: 1 user stories X 20 story points = 20
Sprint 3: 1 user stories X 20 story points = 20
Sprint 4: 1 user stories X 20 story points = 20

Total = 80
Average sprint delivery is 80/4 = 20

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