

Project Planning Phase

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

Date	19 October 2022
Team ID	PNT2022TMID52685
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	Data Collection , Cleaning and Pre-processing	USN-1	As a user, I can't interact with anything. Waiting is users task.	2	High	Chakrabaani,G okul,Hariharasudhan,Jessie Tina
Sprint-1	Model Building	USN-2	As a user, I predict flight delay by using the ML models developed.	1	High	Chakrabaani,Go kul,Hariharasudhan,Jessie Tina
Sprint-2	Model Evaluation	USN-3	As a user, I can evaluate my models accuracy.	2	Low	Chakrabaani,G okul,Hariharasudhan,Jessie Tina
Sprint-2	HTML pages	USN-4	As a user, I can access the html pages	2	Medium	Chakrabaani,G okul,Hariharasudhan,Jessie Tina
Sprint-3	Sign-up	USN-5	As a user, I can register into the application by entering email & password and confirming my password.	1	High	Chakrabaani,G okul,Hariharasudhan,Jessie Tina
Sprint-3	login	USN-6	As a user, I can log into the application by entering email & password	1	high	Chakrabaani,G okul,Hariharasudhan,Jessie Tina

Sprint-4	Model integration and deployment	USN-8	As a user ,I can access the models onintegration with flask.	2	High	Chakrabaani,Go kul,Hariharasud han,Jessie Tina
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Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-4	Deployment and Testing	USN-9	As a user , I can access the web-app and use it .	11	medium	Priya,Shreya
Sprint-4	Improvements if any.	USN-10		1	low	Sarah.

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	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:

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)

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

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

