Project Planning Phase

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

Date	04 NOVEMBER 2022
Team ID	PNT2022TMID32340
Project Name	DEVELOPING A FLIGHT DELAY PREDICTION MODEL USING MACHINE LEARNING ALGORITHM
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 and Preprocessing	USN-1	As a user, I am unable to engage with anything.	2	High	Roshini Banu L Priya Dharshini S Raj Clinton G Sakthivel B
Sprint-1	Build frontend	USN-2	As a user, I can view the web pages to enter flight details.	1	Medium	Roshini Banu L Priya Dharshini S Raj Clinton G Sakthivel B
Sprint-2	Build Python Pages	USN-3	As a user, I am unable to engage with anything.	2	High	Roshini Banu L Priya Dharshini S Raj Clinton G Sakthivel B
Sprint-2	Execute And Test Your Model	USN-4	As a user, I can predict flight delays using the best created ML models.	2	High	Roshini Banu L Priya Dharshini S Raj Clinton G Sakthivel B

Sprint-3	Train The ML Model	USN-6	As a user, I can predict flight delays using the best created ML models.	2	High	Roshini Banu L Priya Dharshini S Raj Clinton G Sakthivel B
Sprint-3	Integrate Flask with Model	USN-5	As a user, I can predict flight delays using the user interface.	2	High	Roshini Banu L Priya Dharshini S Raj Clinton G Sakthivel B
Sprint-4	Model Deployment on IBM Cloud using IBM Watson	USN-8	As a user, I can use the model by requesting the deployed model on Cloud.	2	High	Roshini Banu L Priya Dharshini S Raj Clinton G Sakthivel B

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	3 Days	04 Nov 2022	07 Nov 2022	20	07 Oct 2022
Sprint-2	20	3 Days	07 Nov t 2022	10 Nov 2022	20	10 Nov 2022
Sprint-3	20	3 Days	10 Nov 2022	13 Nov 2022	20	13 Nov 2022
Sprint-4	20	3 Days	13 Nov 2022	16 Nov 2022	20	16 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)

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