Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID16605
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	Data collection and pre-processing	USN-1	As a user, I can't interact with model.so that user can know about the attributes of data by presentation of developer	2	High	Mariya Anthony Visuvasammal.S
Sprint-1	Model building	USN-2	As a user, I can predict flight delay using various machine learning model	1	High	Mariya Anthony Visuvasammal.S
Sprint-1	Model Evaluation	USN-3	As a user, I can predict flight delay using efficient machine learning model	2	high	Mariya Anthony Visuvasammal.S
Sprint-2	Model deployment on IBM cloud using IBM Watson	USN-4	As a user, I can request the cloud to use the model	2	Medium	Darsheta.D
Sprint-2	User interaction dashboard	USN-5	As a user, I can interact with the dashboard to use and predict the model	1	High	Darsheta.D
Sprint-3	Registration	USN-6	As a user, I can register the application by using email, password	2	High	Anitha.R Mary rajam.A
Sprint-3	Login	USN-7	As a user, I can log into the application by entering user email and password	2	Medium	Anitha.R Mary rajam.A
Sprint-4	Raising Query and Complaint	USN-8	As a user, I can raise complaint and give feedback for the application	1	Medium	Anitha.R Mary rajam.A
Sprint-4	Improve overall web application	USN-9	As a user, I can use revised version of web application	1	High	Mariya Anthony Visuvasammal.S Darsheta.D

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	07 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	14 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	20 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)

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

Burndown Chart: