Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID17945
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, Preprocessing	USN-1	Before working on the model we must have some data . So the first thing to do is to collect the data and then after data collection we have to preprocess it.	2	High	P Meenatchi Sundaram, B. Selva Mareeswaran
Sprint-1	Model Building	USN-2	After preprocessing we have to put the preprocessed data into ML models to know how to work .	1	High	R.Saravanan B.Ranjuthan
Sprint-2	UI	USN-3	The frontend has to be created . So that the data can be retrieved from the user.	2	Medium	B.Ranjuthan
Sprint-3	Integrating frontend and Backend	USN-4	After creating the frontend and backend both has to be integrated so that it will be a full fledged application	2	High	B.Ranjuthan P.Meenatchi Sundaram R.Saravanan
Sprint-4	Cloud Deployment	USN-5	After integrating we have to deploy the whole into cloud	1	High	B.Selva Mareeswaran P.Meenatchi Sundaram R.Saravanan B.Ranjuthan

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	7 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)

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

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.