Project Planning Phase

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

Date	05 November 2022
Team ID	PNT2022TMID44333
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 Point	Priority	Team Members
Sprint-1	Data Collection	USN-1	As a user, I can't interact anything. Waiting is user's task. User can listen the relationship existbetween the various attributes of data by presentation of developer.	2	Low	Veerasuriyan K
Sprint-1	Data Pre-processing	USN-1	As a user, provide the clean dataset that further Allows the model.	2	High	Hari Prasath N Shamrajbabu T Vignesh B S Sarathi S S Veerasuriyan K
Sprint-2	Building the Model	USN-2	As a user, I can predict flight delay by variousdeveloped ML models by console	1	High	Shamrajbabu T Vignesh B S
Sprint-2	Evaluation of Model	USN-3	As a user, I can predict flight delay by best Modelin various developed ML model by console	2	High	Hari Prasath N Vignesh B S
Sprint-3	Model Deployment on IBM Cloud.	USN-4	As a user, I can use the model by requesting thedeployed model on Cloud.	1	Medium	Hari Prasath N
Sprint-3	User interaction Dashboard	USN-5	As a user, I can use the model or prediction from model by interacting with dashboard	2	High	Sarathi S S Veerasuriyan K
Sprint-3	Integrated and Creation of Flask.	USN-6	As a user, I can use the model or prediction from model by interacting with the Website.	1	Medium	Shamrajbabu T Sarathi S S
Sprint-4	Registration	USN-7	As a user, I can register for the application by entering my email, password, and confirming mypassword.	2	High	Hari Prasath N

Sprint-4		USN-7	As a user, I can register for the application by entering my email, password, and confirming mypassword.	2	High	Shamrajbabu T
Sprint-4	Login	USN-8	As a user, I can log into the application by entering email & password and I can register .login to the application through Gmail	2	Medium	Vignesh B S
Sprint-4	Feedback	USN-9	As a user, I can raise complaint or query and givefeedback	1	Medium	Veerasuriyan K
Sprint-4	Improve overall web app	USN-10	As a user, I can user revised and improvedversion of web application	1	High	Sarathi S S

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	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:

We have a 24-day sprint duration, and the velocity of the team is 20 (points per sprint).Thus he team's average velocity (AV) per iteration unit (story points per day) is as follows

$$AV = \text{sprint duration} / \text{velocity}$$

$$= 24/20$$

$$= 1.2$$

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.