Project Planning Phase

Date	22 October 2022
Team ID	PNT2022TMID01198
Project Name	Project - Smart Lender - Applicant Credibility Prediction for Loan Approval
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	Dataset	USN-4	Downloading the dataset	1	High	s.vijay s.sanjay b.sanjay raja tharun devar
Sprint-1		USN-5	Visualizing the dataset	2	Low	s.vijay s.sanjay b.sanjay raja tharun devar
Sprint-1		USN-6	Pre-process the dataset	3	Medium	s.vijay s.sanjay b.sanjay raja tharun devar
Sprint-1	Machine Learning Model	USN-7	KNN model building	5	High	s.vijay s.sanjay b.sanjay raja tharun devar
Sprint-2		USN-8	Decision Tree model building	5	High	s.vijay s.sanjay b.sanjay raja tharun devar

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2		USN-9	Naive Bayes model building	5	High	s.vijay s.sanjay b.sanjay raja tharun devar
Sprint-2		USN-10	Fine Tuning the model	3	Low	s.vijay s.sanjay b.sanjay raja tharun devar
Sprint-2		USN-11	Evaluation and saving of the models	5	High	s.vijay s.sanjay b.sanjay raja tharun devar
Sprint-3	Customer User Interface	USN-12	Model Integration with flask	5	High	s.vijay s.sanjay b.sanjay raja tharun devar
Sprint-3		USN-1	As a user, I should be able to access the dashboard.	3	Medium	s.vijay s.sanjay b.sanjay raja tharun devar
Sprint-3		USN-2	Select the type of loan	3	Low	s.vijay s.sanjay b.sanjay raja tharun devar
Sprint-3		USN-3	Fill the application and check the eligibility of loan approval	5	High	s.vijay s.sanjay b.sanjay raja tharun devar
Sprint-4	Deployed the website	USN-13	Register on IBM Cloud	3	Low	s.vijay s.sanjay b.sanjay raja tharun devar
Sprint-4		USN-14	Train the ML model on IBM Cloud	5	Medium	s.vijay s.sanjay b.sanjay raja tharun devar

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-4		USN-15	Deploy the website on IBM Cloud	8	High	s.vijay s.sanjay b.sanjay raja tharun devar

Project Tracker, Velocity & Burndown Chart: (4 Marks)

Sprint	Total StoryPoints	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	11	6 Days	24 Oct 2022	29 Oct 2022	11	29 Oct 2022
Sprint-2	18	6 Days	31 Oct 2022	05 Nov 2022	18	05 Nov 2022
Sprint-3	16	6 Days	07 Nov 2022	12 Nov 2022	16	12 Nov 2022
Sprint-4	16	6 Days	14 Nov 2022	19 Nov 2022	16	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)

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

Velocity of Project - Smart Lender - Applicant Credibility Prediction for Loan Approval

Sprint-1 = 11/6 = 1.833

Sprint-2 = 18/6 = 3

Sprint-3 = 16/6 = 2.67

Sprint-4 = 16/6 = 2.67

Total Velocity = 61/24 = 2.54

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.