Project Planning Phase

Date	22 October 2022
Team ID	PNT2022TMID13791
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	Ananth R Arun Ritthik K K Dharun R Javahar A
Sprint-1		USN-5	Visualizing the dataset	2	Low	Ananth R Arun Ritthik K K Dharun R Javahar A
Sprint-1		USN-6	Pre-process the dataset	3	Medium	Ananth R Arun Ritthik K K Dharun R Javahar A
Sprint-1	Machine Learning Model	USN-7	KNN model building	5	High	Ananth R Arun Ritthik K K Dharun R Javahar A
Sprint-2		USN-8	Decision Tree model building	5	High	Ananth R Arun Ritthik K K Dharun R Javahar A

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	Ananth R Arun Ritthik K K Dharun R Javahar A
Sprint-2		USN-10	Fine Tuning the model	3	Low	Ananth R Arun Ritthik K K Dharun R Javahar A
Sprint-2		USN-11	Evaluation and saving of the models	5	High	Ananth R Arun Ritthik K K Dharun R Javahar A
Sprint-3	Customer User Interface	USN-12	Model Integration with flask	5	High	Ananth R Arun Ritthik K K Dharun R Javahar A
Sprint-3		USN-1	As a user, I should be able to access the dashboard.	3	Medium	Ananth R Arun Ritthik K K Dharun R Javahar A
Sprint-3		USN-2	Select the type of loan	3	Low	Ananth R Arun Ritthik K K Dharun R Javahar A
Sprint-3		USN-3	Fill the application and check the eligibility of loan approval	5	High	Ananth R Arun Ritthik K K Dharun R Javahar A
Sprint-4	Deployed the website	USN-13	Register on IBM Cloud	3	Low	Ananth R Arun Ritthik K K Dharun R Javahar A
Sprint-4		USN-14	Train the ML model on IBM Cloud	5	Medium	Ananth R Arun Ritthik K K Dharun R Javahar A

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	Ananth R Arun Ritthik K K Dharun R Javahar A

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.