Project Planning Phase

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

Date	19 October 2022
Team ID	PNT2022TMID13022
Project Name	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	Download the dataset	1	High	Haritha Jayavarthini Nivaethetha Ragavi
Sprint-1		USN-5	Visualize the dataset	2	Low	Haritha Jayavarthini Nivaethetha Ragavi
Sprint-1		USN-6	Pre-Process the dataset	3	Medium	Haritha Jayavarthini Nivaethetha Ragavi
Sprint-1	Machine Learning Model	USN-7	KNN Model Building	5	High	Haritha Jayavarthini Nivaethetha Ragavi
Sprint-2		USN-8	Decision Tree Model Building	5	High	Haritha Jayavarthini Nivaethetha Ragavi
Sprint-2		USN-9	Naïve Bayes Model Building	5	High	Haritha Jayavarthini Nivaethetha Ragavi
Sprint-2		USN-10	Fine Tuning of the Model	3	Low	Haritha Jayavarthini Nivaethetha Ragavi

Sprint-2		USN-11	Evaluation and saving of the model	5	High	Haritha Jayavarthini Nivaethetha Ragavi
Sprint-3	Customer User Interface	USN-12	Model Integration with flask	5	High	Haritha Jayavarthini Nivaethetha Ragavi
Sprint-3		USN-1	As a user,I should be able to access the dashboard	3	Medium	Haritha Jayavarthini Nivaethetha Ragavi
Sprint-3		USN-2	Selecting the loan type	3	Low	Haritha Jayavarthini Nivaethetha Ragavi
Sprint-3		USN-3	Fill the application and check the eligibility for loan approval	5	High	Haritha Jayavarthini Nivaethetha Ragavi
Sprint-4	Deployed the website	USN-13	Register on IBM Cloud	3	Low	Haritha Jayavarthini Nivaethetha Ragavi
Sprint-4		USN-14	Train the ML Model on IBM Cloud	5	Medium	Haritha Jayavarthini Nivaethetha Ragavi
Sprint-4		USN-15	Deploy the website on IBM Cloud	5	High	Haritha Jayavarthini Nivaethetha Ragavi

Project Tracker, Velocity and 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	11	6 Days	24 Oct 2022	30 Oct 2022	11	30 Oct 2022
Sprint-2	18	6 Days	01 Nov 2022	07 Nov 2022	18	07 Nov 2022
Sprint-3	16	6 Days	04 Nov 2022	10 Nov 2022	16	10 Nov 2022
Sprint-4	16	6 Days	12 Nov 2022	18 Nov 2022	16	18 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)

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

Our Project velocity
Sprint-1 = 11/6 = 1.833

Sprint-2 = 18/6 = 3

Sprint-3 = 16/6 = 2.67

Sprint-4 = 61/24 = 2.54

Burndown Chart

A burndown 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,burndown charts can be applied to any project containing measurable progress over time.

Burndown Chart