Project Planning Phase

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

Date	2 November 2022
Team ID	PNT2022TMID20210
Project Name	Smart Lender - Applicant Credibility Prediction for Loan Approval
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	Dataset	USN-4	Downloading the dataset	1	High	Udaya Kumar k Thahir Ibrahim S Rajapaul M Karthiram A
Sprint-1		USN-5	Visualizing the dataset	2	Low	Udaya Kumar k Thahir Ibrahim S Rajapaul M Karthiram A
Sprint-1		USN-6	Pre-process the dataset	3	Medium	Udaya Kumar k Thahir Ibrahim S Rajapaul M Karthiram A
Sprint-1	Machine Learning Model	USN-7	KNN model building	5	High	Udaya Kumar k Thahir Ibrahim S Rajapaul M Karthiram A
Sprint-2		USN-8	Decision Tree model building	5	High	Udaya Kumar k Thahir Ibrahim S Rajapaul M Karthiram 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	Udaya Kumar k Thahir Ibrahim S Rajapaul M Karthiram A
Sprint-2		USN-10	Fine Tuning the model	3	Low	Udaya Kumar k Thahir Ibrahim S Rajapaul M Karthiram A
Sprint-2		USN-11	Evaluation and saving of the models	5	High	Udaya Kumar k Thahir Ibrahim S Rajapaul M Karthiram A
Sprint-3	UserInterface	USN-12	Model Integration with flask	5	High	Udaya Kumar k Thahir Ibrahim S Rajapaul M Karthiram A
Sprint-3		USN-1	As a user, I should be able to access the dashboard.	3	Medium	Udaya Kumar k Thahir Ibrahim S Rajapaul M Karthiram A
Sprint-3		USN-2	Select the type of loan	3	Medium	Udaya Kumar k Thahir Ibrahim S Rajapaul M Karthiram A
Sprint-3		USN-3	Fill the application and check the eligibility of loan approval	5	High	Udaya Kumar k Thahir Ibrahim S Rajapaul M Karthiram A
Sprint-4	Deploying website	USN-13	Register on IBM Cloud	3	Low	Udaya Kumar k Thahir Ibrahim S Rajapaul M Karthiram A
Sprint-4		USN-14	Train the ML model on IBM Cloud	5	Medium	Udaya Kumar k Thahir Ibrahim S Rajapaul M Karthiram 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	Udaya Kumar k Thahir Ibrahim S Rajapaul M Karthiram A

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	11	6 Days	24 Oct 2022	29 Oct 2022	11	05 Nov 2022
Sprint-2	18	6 Days	31 Oct 2022	05 Nov 2022	18	08 Nov 2022
Sprint-3	16	6 Days	07 Nov 2022	12 Nov 2022	16	14 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)

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

Our Project velocity

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.