

Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID02327
Project Name	Project - 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	Yamini Chaandhini Varun Sriram
Sprint-1		USN-5	Visualizing the dataset	2	Low	Yamini Chaandhini Varun Sriram
Sprint-1		USN-6	Pre-process the dataset	3	Medium	Yamini Chaandhini Varun Sriram
Sprint-1	Machine Learning Model	USN-7	KNN model building	5	High	Yamini Chaandhini Varun Sriram

Sprint-2		USN-8	Decision Tree model building	5	High	Yamini Chaandhini Varun Sriram
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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	Yamini Chaandhini Varun Sriram
Sprint-2		USN-10	Fine Tuning the model	3	Low	Yamini Chaandhini Varun Sriram
Sprint-2		USN-11	Evaluation and saving of the models	5	High	Yamini Chaandhini Varun Sriram
Sprint-3	Customer User Interface	USN-12	Model Integration with flask	5	High	Yamini Chaandhini Varun Sriram
Sprint-3		USN-1	As a user, I should be able to access the dashboard.	3	Medium	Yamini Chaandhini Varun Sriram
Sprint-3		USN-2	Select the type of loan	3	Low	Yamini Chaandhini Varun Sriram
Sprint-3		USN-3	Fill the application and check the eligibility of loan approval	5	High	Yamini Chaandhini Varun Sriram

Sprint-4	Deployed the website	USN-13	Register on IBM Cloud	3	Low	Yamini Chaandhini Varun Sriram
Sprint-4		USN-14	Train the ML model on IBM Cloud	5	Medium	Yamini Chaandhini Varun Sriram

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	Yamini Chaandhini Varun Sriram

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

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Completed (as on Planned End Date)	Points	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)

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

Our Project velocity

Sprint-1 = 11/6 = 1.833

Sprint-2 = 18/6 = 3

Sprint-3 = 16/6 = 2.67

Sprint-4 = 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.

Burndown Chart

