

Project Planning Phase

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

Date	1 November 2022
Team ID	PNT2022TMID52913
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 Acquisition	USN-1	Downloading the dataset	1	High	Jebaroshan D
Sprint-1		USN-2	Visualizing the dataset	2	Low	Harshavardhan G V Jebaroshan D Harish K Mohit Khanna S
Sprint-1		USN-3	Pre-process the dataset	3	Medium	Harshavardhan G V Jebaroshan D Harish K Mohit Khanna S
Sprint-1	ML Model Building	USN-4	KNN model building	5	High	Harshavardhan G V Jebaroshan D Harish K Mohit Khanna S

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2		USN-5	Decision Tree model building	5	High	Harshavardhan G V Jebaroshan D Harish K Mohit Khanna S
Sprint-2		USN-6	Random Forest Model	5	High	Harshavardhan G V Jebaroshan D Harish K Mohit Khanna S
Sprint-2		USN-7	XgBoost Algorithm	5	High	Harshavardhan G V Jebaroshan D Harish K Mohit Khanna S
Sprint-2		USN-8	Fine Tuning the model	3	Low	Harshavardhan G V Jebaroshan D Harish K Mohit Khanna S
Sprint-2		USN-9	Evaluation and saving of the models	5	High	Harshavardhan G V Jebaroshan D Harish K Mohit Khanna S
Sprint-3	User Interface	USN-10	Model Integration with flask	5	High	Harshavardhan G V Jebaroshan D Harish K Mohit Khanna S
Sprint-3		USN-11	As a user, I should be able to access the dashboard.	3	Medium	Harshavardhan G V Jebaroshan D Harish K Mohit Khanna S
Sprint-3		USN-12	Select the type of loan	3	Low	Harshavardhan G V Jebaroshan D Harish K Mohit Khanna S

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3		USN-13	Fill the application and check the eligibility of loan approval	5	High	Harshavardhan G V Jebaroshan D Harish K Mohit Khanna S
Sprint-4	Deployment of the Website	USN-14	Register on IBM Cloud	3	Low	Harshavardhan G V Jebaroshan D Harish K Mohit Khanna S
Sprint-4		USN-15	Train the ML model on IBM Cloud	5	Medium	Harshavardhan G V Jebaroshan D Harish K Mohit Khanna S
Sprint-4		USN-16	Deploy the website on IBM Cloud	8	High	Harshavardhan G V Jebaroshan D Harish K Mohit Khanna S

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	29 Oct 2022

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-2	23	6 Days	31 Oct 2022	05 Nov 2022	23	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

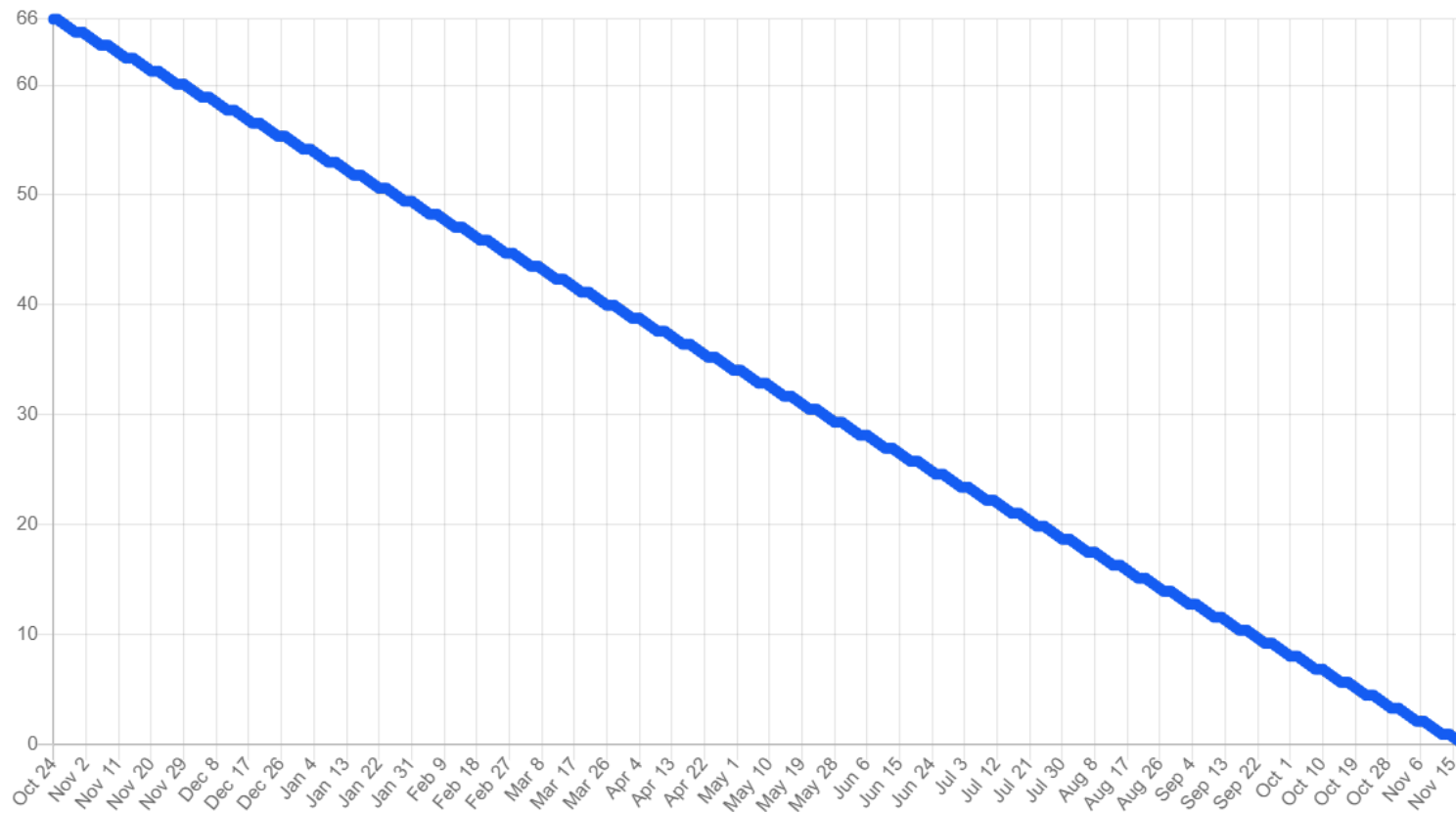
Velocity:

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)

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

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.



<https://www.visual-paradigm.com/scrum/scrum-burndown-chart/>
<https://www.atlassian.com/agile/tutorials/burndown-charts>

Reference:

<https://www.atlassian.com/agile/project-management>
<https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software>
<https://www.atlassian.com/agile/tutorials/epics>
<https://www.atlassian.com/agile/tutorials/sprints>
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<https://www.atlassian.com/agile/tutorials/burndown-charts>