

Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID10667
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	User Registration and Login	USN-2	To login the IBM account	2	High	Monica Jain. D Manjula.S Nishanthi.S Nishi Gilbert. G Nashiha Sulthana. G
Sprint-1		USN-3	By providing my email address to access as an user	2	Low	Monica Jain. D Manjula.S Nishanthi.S Nishi Gilbert. G Nashiha Sulthana. G
Sprint-1	Dataset	USN-4	Download the dataset	3	Medium	Monica Jain. D Manjula.S Nishanthi.S Nishi Gilbert. G Nashiha Sulthana. G
Sprint-1		USN-5	Visualize the dataset	4	High	Monica Jain. D Manjula.S Nishanthi.S Nishi Gilbert. G Nashiha Sulthana. G
Sprint-2	Use Model	USN-6	Pre-process the dataset	4	Medium	Monica Jain. D Manjula.S Nishanthi.S Nishi Gilbert. G Nashiha Sulthana. G

Sprint-2		USN-8	Model the algorithm Decision Tree model building	3	High	Monica Jain. D Manjula.S Nishanthi.S Nishi Gilbert. G Nashiha Sulthana. G
Sprint-2		USN-8	Xgboost model building	3	High	Monica Jain. D Manjula.S Nishanthi.S Nishi Gilbert. G Nashiha Sulthana. G
Sprint-2		USN-8	Random forest building	3	High	Monica Jain. D Manjula.S Nishanthi.S Nishi Gilbert. G Nashiha Sulthana. G
Sprint-2		USN-8	Decision Tree building	3	High	Monica Jain. D Manjula.S Nishanthi.S Nishi Gilbert. G Nashiha Sulthana. G
Sprint-2		USN-8	KNN model building	3	High	Monica Jain. D Manjula.S Nishanthi.S Nishi Gilbert. G Nashiha Sulthana. G
Sprint-2		USN-9	Fine Tuning the model	4	Medium	Monica Jain. D Manjula.S Nishanthi.S Nishi Gilbert. G Nashiha Sulthana. G
Sprint-2		USN-10	Evaluation the models	5	High	Monica Jain. D Manjula.S Nishanthi.S Nishi Gilbert. G Nashiha Sulthana. G
Sprint-3	Dashboard(User Interface)	USN-11	To integrate the model with flask	3	Low	Monica Jain. D Manjula.S Nishanthi.S Nishi Gilbert. G Nashiha Sulthana. G

Sprint-3		USN-12	To create a dashboard as like User Interface	3	Medium	Monica Jain. D Manjula.S Nishanthi.S Nishi Gilbert. G Nashiha Sulthana. G
Sprint-3		USN-13	As a user able to fill the application and access the application on the user interface	2	Low	Monica Jain. D Manjula.S Nishanthi.S Nishi Gilbert. G Nashiha Sulthana. G
Sprint-3		USN-14	Select the type of loan	2	Low	Monica Jain. D Manjula.S Nishanthi.S Nishi Gilbert. G Nashiha Sulthana. G
Sprint-3		USN-15	To fill the application and check for the availability sources	3	Medium	Monica Jain. D Manjula.S Nishanthi.S Nishi Gilbert. G Nashiha Sulthana. G
Sprint-4	Register	USN-16	Register all the team members to IBM CCloud	3	Medium	Monica Jain. D Manjula.S Nishanthi.S Nishi Gilbert. G Nashiha Sulthana. G
Sprint-4	Deployed the website in IBM Cloud	USN-171	Train the model on IBM Cloud	5	High	Monica Jain. D Manjula.S Nishanthi.S Nishi Gilbert. G Nashiha Sulthana. G
Sprint-4		USN-18	Deploy the website on IBM Cloud	4	Medium	Monica Jain. D Manjula.S Nishanthi.S Nishi Gilbert. G Nashiha Sulthana. G
Sprint-4		USN-19	User apply for the loan (user can check the loan eligibility or not)	4	Medium	Monica Jain. D Manjula.S Nishanthi.S Nishi Gilbert. G Nashiha Sulthana. G

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	10	6 Days	21Oct 2022	30 Oct 2022	10	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05Nov 2022	20	05 Nov 2022
Sprint-3	11	6 Days	06 Nov 2022	12 Nov 2022	11	12 Nov 2022
Sprint-4	19	6 Days	12 Nov 2022	19 Nov 2022	19	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 = $10/6 = 1.666$

Sprint-2 = $20/6 = 3.33$

Sprint-3 = $11/6 = 1.833$

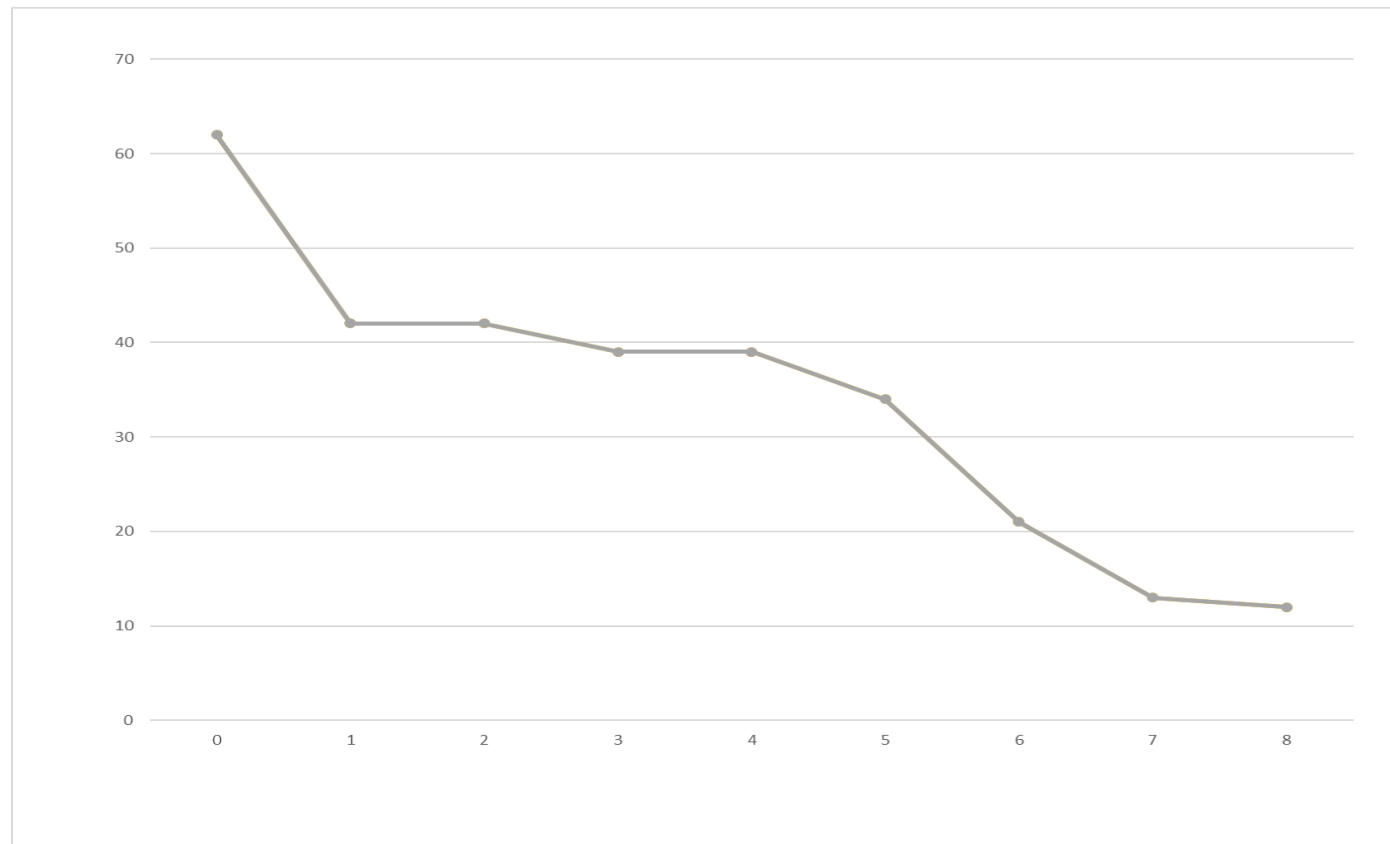
Sprint-4 = $19/6 = 3.166$

Total Velocity = $60/24 = 2.5$

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



X-Sprint Activity
Y -Working Hours