

## Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID51373
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	BLESSLIN NISHIFA O J ASWITHA S J LIULIN SHAMILY L MURUGESWARI S
Sprint-1		USN-5	Visualizing the dataset	2	Low	BLESSLIN NISHIFA O J ASWITHA S J LIULIN SHAMILY L MURUGESWARI S
Sprint-2		USN-6	Pre-process the dataset	3	Medium	BLESSLIN NISHIFA O J ASWITHA S J LIULIN SHAMILY L

						MURUGESWARI S
Sprint-1	Machine Learning Model	USN-7	KNN model building	5	High	BLESSLIN NISHIFA O J ASWITHA S J LIULIN SHAMILY L MURUGESWARI S
Sprint-2		USN-8	Decision Tree model building	5	High	BLESSLIN NISHIFA O J ASWITHA S J LIULIN SHAMILY L MURUGESWARI S

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
						BLESSLIN NISHIFA O J
Sprint-2		USN-9	Naive Bayes model building	5	High	KEERTHI A VINOTH S NISHAANTH N K ARAVIND R
Sprint-2		USN-10	Fine Tuning the model	3	Low	KEERTHI A VINOTH S NISHAANTH N K ARAVIND R

Sprint-2		USN-11	Evaluation and saving of the models	5	High	BLESSLIN NISHIFA O J ASWITHA S J LIULIN SHAMILY L MURUGESWARI S
Sprint-3	Customer User Interface	USN-12	Model Integration with flask	5	High	BLESSLIN NISHIFA O J ASWITHA S J LIULIN SHAMILY L MURUGESWARI S
Sprint-3		USN-1	1 As a user, I should be able to access the dashboard	3	Medium	BLESSLIN NISHIFA O J ASWITHA S J LIULIN SHAMILY L MURUGESWARI S
Sprint-3		USN-2	Select the type of loan	3	Low	BLESSLIN NISHIFA O J ASWITHA S J LIULIN SHAMILY L MURUGESWARI S
Sprint-3		USN-3	Fill the application and check the eligibility of loan approval	5	High	BLESSLIN NISHIFA O J ASWITHA S J LIULIN SHAMILY L

						MURUGESWARI S
Sprint-4	Deployed the website	USN-13	Register on IBM Cloud	3	Low	BLESSLIN NISHIFA O J ASWITHA S J LIULIN SHAMILY L MURUGESWARI S
Sprint-4		USN-14	Train the ML model on IBM Cloud	5	Medium	BLESSLIN NISHIFA O J
<b>Sprint</b>	<b>Functional Requirement (Epic)</b>	<b>User Story Number</b>	<b>User Story / Task</b>	<b>Story Points</b>	<b>Priority</b>	<b>Team Members</b>
						BLESSLIN NISHIFA O J ASWITHA S J LIULIN SHAMILY
Sprint-4		USN-15	Deploy the website on IBM cloud	8	High	BLESSLIN NISHIFA O J ASWITHA S J LIULIN SHAMILY L MURUGESWARI S

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

<b>Sprint</b>	<b>Total Story Points</b>	<b>Duration</b>	<b>Sprint Start Date</b>	<b>Sprint End Date (Planned)</b>	<b>Story Points Completed (as on Planned End Date)</b>	<b>Sprint Release Date (Actual)</b>
Sprint-1	11	6 Days	24 Oct 2022	29 Oct 2022	20	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

