

## Project Planning Phase

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

|               |   |
|---------------|---|
| Date          | 22 October 2022   |
| Team ID       | PNT2022TMID24683  |
| 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 list all the user stories for the product.

| Sprint   | Functional Requirement (Epic) | User Story Number | User Story / Task   | Story Points | Priority | Team Members                                      |
|----------|-------------------------------|-------------------|---|--------------|----------|---|
| Sprint-1 | Registration                  | USN-1             | As a user, I can register for the application by entering my email, password, and confirming my password. | 2            | High     | Prithvi Sagar, Nithyaanaandam, Raghavi, Ushaswini |
| Sprint-1 |                               | USN-2             | As a user, I will receive confirmation email once I have registered for the application                   | 2            | High     | Prithvi Sagar, Nithyaanaandam, Raghavi, Ushaswini |
| Sprint-3 |                               | USN-3             | As a user, I can register for the application through Facebook  | 1            | Low      | Prithvi Sagar, Nithyaanaandam, Raghavi, Ushaswini |
| Sprint-2 |                               | USN-4             | As a user, I can register for the application through Gmail   | 2            | Medium   | Prithvi Sagar, Nithyaanaandam, Raghavi, Ushaswini |
| Sprint-1 | Login                         | USN-5             | As a user, I can log into the application by entering email & password                                    | 2            | High     | Prithvi Sagar, Nithyaanaandam, Raghavi, Ushaswini |
| Sprint-1 | Dashboard                     | USN-6             | I should be able to utilize anything I am permitted to use on the dashboard as a user.                    | 1            | Medium   | Prithvi Sagar, Nithyaanaandam, Raghavi, Ushaswini |

| Sprint   | Functional Requirement (Epic)        | User Story Number | User Story / Task  | Story Points | Priority | Team Members                                      |
|----------|--------------------------------------|-------------------|--|--------------|----------|---|
| Sprint-1 | Register                             | USN-7             | As a user, I can register for the application by entering my email, password, and confirming my password.                                  | 2            | High     | Prithvi Sagar, Nithyaanaandam, Raghavi, Ushaswini |
| Sprint-1 |                                      | USN-8             | As a user, I will receive confirmation email once I have registered for the application  | 1            | High     | Prithvi Sagar, Nithyaanaandam, Raghavi, Ushaswini |
| Sprint-3 |                                      | USN-9             | As a user, I can register for the application through Gmail  | 2            | Medium   | Prithvi Sagar, Nithyaanaandam, Raghavi, Ushaswini |
| Sprint-1 | Login                                | USN-10            | As a user, I can log into the application by entering email & password   | 1            | High     | Prithvi Sagar, Nithyaanaandam, Raghavi, Ushaswini |
| Sprint-1 | Dashboard                            | USN-11            | As a user, I should be able to utilize anything I am permitted to use on the dashboard as a user.  | 1            | Medium   | Prithvi Sagar, Nithyaanaandam, Raghavi, Ushaswini |
|          |                                      |                   |  |              |          |   |
| Sprint-2 | Register                             | USN-12            | As a loan approval officer, I should be able to register myself as one using a unique email and password.                                  | 5            | Medium   | Prithvi Sagar, Nithyaanaandam, Raghavi, Ushaswini |
| Sprint-2 | Login                                | USN-13            | As a loan approval officer, I should be able to login as one using an unique email and password.   | 5            | Medium   | Prithvi Sagar, Nithyaanaandam, Raghavi, Ushaswini |
| Sprint-3 | Automated analysis of credit history | USN-14            | As a loan approval officer, I can access the dashboard where I feed applications for loan prediction.                                      | 10           | High     | Prithvi Sagar, Nithyaanaandam, Raghavi, Ushaswini |
| Sprint-3 |                                      | USN-15            | As a loan approval officer, I can get a decision followed by some details for the decision when I feed an application for loan prediction. | 15           | High     | Prithvi Sagar, Nithyaanaandam, Raghavi, Ushaswini |
| Sprint-4 | Register                             | USN-16            | As an admin, I should be able to register myself as one using a unique email and password.   | 2            | Medium   | Prithvi Sagar, Nithyaanaandam, Raghavi, Ushaswini |

| Sprint   | Functional Requirement (Epic) | User Story Number | User Story / Task   | Story Points | Priority | Team Members                                      |
|----------|-------------------------------|-------------------|---|--------------|----------|---|
| Sprint-4 | Login                         | USN-17            | As an admin, I should be able to login myself as one using a unique email and password    | 2            | Medium   | Prithvi Sagar, Nithyaanaandam, Raghavi, Ushaswini |
| Sprint-4 | Dashboard                     | USN-18            | As an admin, I should be able to access the dashboard with everything I am allowed to use | 2            | Medium   | Prithvi Sagar, Nithyaanaandam, Raghavi, Ushaswini |
| Sprint-4 | Database                      | USN - 19          | As an admin, I should be able to retrieve saved data and take backups                     | 2            | Low      | Prithvi Sagar, Nithyaanaandam, Raghavi, Ushaswini |

**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 | 20                 | 6 Days   | 24 Oct 2022       | 29 Oct 2022               | 12  |                              |
| Sprint-2 | 20                 | 6 Days   | 31 Oct 2022       | 05 Nov 2022               | 12  |                              |
| Sprint-3 | 20                 | 9 Days   | 07 Nov 2022       | 15 Nov 2022               | 28  |                              |
| Sprint-4 | 20                 | 4 Days   | 16 Nov 2022       | 19 Nov 2022               | 8   |                              |

**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)

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

$$AV [\text{Sprint-1}] = 12/6 = 2$$

$$AV [\text{Sprint-2}] = 12/6 = 2$$

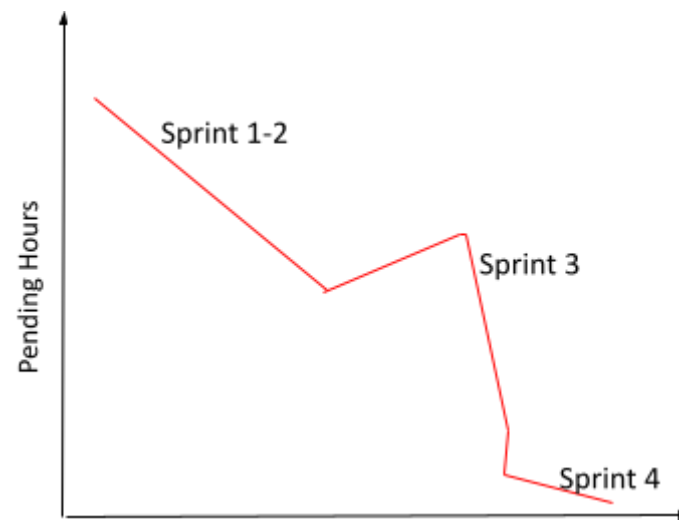
$$AV[\text{Sprint-3}] = 28/9 = 3$$

$$AV[\text{Sprint - 4}] = 8/4 = 2$$

## 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>  
<https://www.atlassian.com/agile/project-management/estimation>  
<https://www.atlassian.com/agile/tutorials/burndown-charts>