

## Project Planning Phase

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

Date	21October 2022
Team ID	PNT2022TMID40372
Project Name	Statistical Machine Learning Approaches to Liver Disease Prediction
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	Registration	USN-1	As a user, I can register for the web application by entering my email, password, and confirming my password.	2	High	Sanjay R Vengadesh R
Sprint-1	Registration	USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	Gopinath S Santhosh S
Sprint-2	Registration	USN-3	As a user, I can register for the application through Facebook	2	Low	Gopinath S
Sprint-1	Registration	USN-4	As a user, I can register for the application through Gmail	2	Medium	Santhosh S
Sprint-2	Login	USN-5	As a user, I can log into the application by entering email & password	1	High	Vengadesh R
Sprint-1	Dashboard	USN-6	As a user, I can access the services and information provided in the dashboard	2	High	Sanjay R
Sprint-2	Login	USN-7	As a user, I can login to the web application and access the dashboard	2	High	Vengadesh R Santhosh S
Sprint-2	Description	USN-8	As a user, I can provide the description option to the web application	1	Low	Sanjay R Gopinath S

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Analysis of prediction results	USN-9	As a user, I can predict the presence of liver disease using web application	2	High	Vengadesh R Santhosh S
Sprint-3	Customer queries	USN-10	As a user, I can be able to get the recommendations to cure the liver disease	2	Low	Sanjay R Gopinath S
Sprint-3	Management	USN-11	As an administrator, I can collect the new datasets from user	2	High	Santhosh S Gopinath S
Sprint-4	Management	USN-12	As an administrator, I can update other features of the application	1	High	Vengadesh R Gopinath S
Sprint-4	Management	USN-13	As an administrator, I can maintain the information about the user	2	High	Santhosh S Sanjay R

#### 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	7	6 Days	24 Oct 2022	29 Oct 2022	7	29 Oct 2022
Sprint-2	6	6 Days	31 Oct 2022	05 Nov 2022	7	05 Nov 2022
Sprint-3	6	6 Days	07 Nov 2022	12 Nov 2022	5	12 Nov 2022
Sprint-4	3	6 Days	14 Nov 2022	19 Nov 2022	3	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)

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

$$AV \text{ (Sprint 1)} = 7/6 = 1$$

$$AV \text{ (Sprint 2)} = 6/6 = 1$$

$$AV \text{ (Sprint 3)} = 6/6 = 1$$

$$AV \text{ (Sprint 4)} = 3/6 = 1$$

**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.

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Statistical Machine Lea...  
Software project

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Roadmap

Backlog

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Projects / Statistical Machine Learning Approaches to Liver Disease Prediction

## Backlog

🔍 VR 👤 Epic ▾ Insights

▼ SMLATLDP Sprint 1 24 Oct – 29 Oct (4 issues) 0 7 0 Complete sprint ⋮

- 🟢 SMLATLDP-1 As a user, I can register for the web application by entering my email, password, and confirming my password. 2 IN PROGRESS ▾ VR
- 🟢 SMLATLDP-2 As a user, I will receive confirmation email once I have registered for the application 1 IN PROGRESS ▾ VR
- 🟢 SMLATLDP-4 As a user, I can register for the application through Gmail 2 IN PROGRESS ▾ VR
- 🟢 SMLATLDP-8 As a user, I can access the services and information provided in the dashboard 2 IN PROGRESS ▾ VR

+ Create issue

▼ SMLATLDP Sprint 2 Add dates (4 issues) 6 0 0 Start sprint ⋮

- 🟢 SMLATLDP-3 As a user, I can register for the application through Facebook 2 TO DO ▾ VR
- 🟢 SMLATLDP-5 As a user, I can log into the application by entering email & password 1 TO DO ▾ VR
- 🟢 SMLATLDP-9 As a user, I can login to the web application and access the dashboard 2 TO DO ▾ VR

Quickstart ✕

<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>