**Project Planning Phase**

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

|  |  |
| --- | --- |
| Date | 18 October 2022 |
| Team ID | PNT2022TMID26382 |
| 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 application by entering my email, password, and confirming my password. | 5 | High | Rithika AM |
| Sprint-1 |  | USN-2 | As a user, I will receive confirmation email once I have registered for the application | 5 | High | Kavya AP |
| Sprint-1 | login | USN-3 | As a user, I can register for the application through email | 10 | High | Kirthiga S |
| Sprint-2 | Input necessary details | USN-4 | As a user, I can give Input Details to Predict. | 15 | High | Rithika AM |
| Sprint-2 | Pre processing data | USN-5 | Transforming the data into suitable format for prediction. | 5 | High | Madhulika |
| Sprint -3 | Prediction of liver diasease | USN-6 | As a user, I can predict Liver Disease using machine learning model. | 15 | High | Kavya AP |
| Sprint -3 |  | USN-7 | As a user, I can get accurate prediction of liver disease. | 10 | High | Kirthiga s |
| Sprint-4 | review | USN-8 | As a user, I can give feedback of the application. | 15 | High | Madhulika |

**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 | 17 | 29 Oct 2022 |
| Sprint-2 | 20 | 6 Days | 31 Oct 2022 | 05 Nov 2022 | 18 | 05 Nov 2022 |
| Sprint-3 | 20 | 6 Days | 07 Nov 2022 | 12 Nov 2022 | 17 | 12 Nov 2022 |
| Sprint-4 | 20 | 6 Days | 14 Nov 2022 | 19 Nov 2022 | 18 | 19Nov 2022 |

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)



**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](https://www.visual-paradigm.com/scrum/what-is-agile-software-development/) methodologies such as [Scrum](https://www.visual-paradigm.com/scrum/scrum-in-3-minutes/). However, burn down charts can be applied to any project containing measurable progress over time.

**80**

**60**

**40**

**20**

**0**

**Day1 Day2 Day3 Day4 Day5 Day6**