**Project Planning Phase**

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

|  |  |
| --- | --- |
| Date | 26 June 2025 |
| Team ID | SRGECVIP20251570 |
| Project Name | Revolutionizing Liver Care : Predicting Liver Cirrhosis using Advanced Machine Learning Techniques |
| Maximum Marks | 5 Marks |

**Product Backlog, Sprint Schedule, and Estimation (4 Marks)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points | Priority | Team Members |
| Sprint-1 | Data Collection | USN-1 | As a user, I want to upload lab results for liver health assessment. | 3 | High | Sunny |
| Sprint-1 | Prediction Engine | USN-2 | As a doctor, I want the system to give cirrhosis prediction based on patient data. | 5 | High | VishnuVardhan |
| Sprint-2 | Explainability | USN-3 | As a doctor, I want to understand the prediction via SHAP graphs. | 3 | Medium | Ujwala |
| Sprint-2 | Web Interface | USN-4 | As a doctor, I want a web UI to input patient details and view results. | 4 | High | VishnuVardhan |
| Sprint-3 | Result Logging | USN-5 | As a user, I want to see historical predictions for follow-ups. | 2 | Low | Sunny |
| Sprint-3 | Admin Access | USN-6 | As a clinic admin, I want to manage access and monitor usage. | 3 | Medium | SurendraReddy |

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sprint | Total Story Points | Duration | Sprint Start Date | Sprint End Date (Planned) | Story Points Completed |
| Sprint-1 | 8 | 6 Days | 21 June 2025 | 26 June 2025 | 8 |
| Sprint-2 | 7 | 6 Days | 19 June 2025 | 24 June 2025 | 7 |
| Sprint-3 | 5 | 6 Days | 13 June 2025 | 18 June 2025 | 5 |

**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)



**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.

[**https://www.visual-paradigm.com/scrum/scrum-burndown-chart/**](https://www.visual-paradigm.com/scrum/scrum-burndown-chart/)

[**https://www.atlassian.com/agile/tutorials/burndown-charts**](https://www.atlassian.com/agile/tutorials/burndown-charts)

**Reference:**

[**https://www.atlassian.com/agile/project-management**](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/how-to-do-scrum-with-jira-software)

[**https://www.atlassian.com/agile/tutorials/epics**](https://www.atlassian.com/agile/tutorials/epics)

[**https://www.atlassian.com/agile/tutorials/sprints**](https://www.atlassian.com/agile/tutorials/sprints)

[**https://www.atlassian.com/agile/project-management/estimation**](https://www.atlassian.com/agile/project-management/estimation)

[**https://www.atlassian.com/agile/tutorials/burndown-charts**](https://www.atlassian.com/agile/tutorials/burndown-charts)