**Project Planning Phase**

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

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| --- | --- |
| Date | 27 June 2025 |
| Team ID | LTVIP2025TMID59561 |
| Project Name | HealthAI: Intelligent Healthcare Assistant Using IBM Granite |
| 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 data engineer, I want to collect health-related datasets from public sources | 2 | High | Bhuvana |
| Sprint-1 | Data Collection | USN-2 | As a dev, I want to load datasets into the workspace using pandas | 1 | High | Bhuvana |
| Sprint-1 | Data Preprocessing | USN-3 | As a dev, I want to handle missing values using mean/median imputation | 3 | Medium | Swathi |
| Sprint-1 | Data Preprocessing | USN-4 | As a dev, I want to encode categorical variables for model compatibility | 2 | Medium | Swathi |
| Sprint-2 | Model Building | USN-5 | As a data scientist, I want to build disease prediction model using ML techniques | 5 | High | Purna Chandu |
| Sprint-2 | Model Testing | USN-6 | As a dev, I want to test the model for accuracy, recall, and precision | 3 | High | Purna Chandu |
| Sprint-2 | Deployment | USN-7 | As a dev, I want to create basic HTML pages for the frontend | 3 | Medium | Abhinaya sri |
| Sprint-2 | Deployment | USN-8 | As a dev, I want to deploy the app using Flask on localhost | 5 | High | Abhinaya sri |

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sprint** | **Total Story Points** | **Duration** | **Sprint Start Date** | **Sprint End Date (Planned)** | **Story Points Completed** | **Sprint Release Date (Actual)** |
| Sprint-1 | 8 | 5 Days | 16 Jun 2025 | 20 Jun 2025 | 8 | 20 Jun 2025 |
| Sprint-2 | 16 | 5 Days | 22 Jun 2025 | 26 Jul 2025 | 16 | 26 Jun 2025 |

**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)