**Project Planning Phase**

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

|  |  |
| --- | --- |
| Date | 03 August 2025 |
| Team ID | LTVIP2025TMID59168 |
| Project Name | SmartSDLC – AI-Enhanced Software Development Lifecycle |
| Maximum Marks | 5 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 | Requirement Classification | USN-1 | As a developer, I can upload project requirements in text format to get them classified automatically. | 2 | High |  |
| Sprint-1 | Requirement Classification | USN-2 | As a developer, I receive classified outputs such as Functional, Non-Functional, and UI Requirements. | 1 | High |  |
| Sprint-1 | Bug Fixing AI | USN-3 | As a developer, I can input buggy code and receive AI-based fix suggestions instantly. | 3 | High |  |
| Sprint-1 | Bug Fixing AI | USN-4 | As a developer, I can view side-by-side comparison of original and fixed code. | 2 | Medium |  |
| Sprint-2 | Code Generation | USN-5 | As a user, I can input a plain-text requirement and receive auto-generated Python code. | 5 | High |  |
| Sprint-2 | Code Generation | USN-6 | As a user, I can copy and download the generated code from the interface. | 3 | Medium |  |
| Sprint-2 | Deployment & UI | USN-7 | As a user, I can access a clean dashboard built with Streamlit to use all SmartSDLC features. | 3 | High |  |
| Sprint-2 | Deployment & UI | USN-8 | As a user, I can run the platform using ngrok link to test without deployment hassles. | 5 | Medium |  |

**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 | 8 | 5 Days | 01 July 2025 | 05 July 2025 | 8 | 05 July 2025 |
| Sprint-2 | 16 | 5 Days | 07 July 2025 | 11 July 2025 |  |  |
| Sprint-3 | 12 | 5 Days | 13 July 2025 | 17 July 2025 |  |  |
| Sprint-4 | 14 | 5 Days | 19 July 2025 | 23 July 2025 |  |  |

**Velocity:**

**Average Velocity (AV)=Total Story Points / Sprint Duration (in days)**

**Average Velocity (AV) = 2.4 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)