**Project Planning Phase**

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

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| Date | 25 June 2025 |
| Team ID | LTVIP2025TMID30212 |
| 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 | Registration | USN-1 | As a user, I can register for the application by entering my email, password, and confirming my password. | 2 | High | Yogesh |
| Sprint-1 | Code Generation | USN-2 | As a user, I will receive confirmation email once I have registered for the application | 1 | High | Yogesh |
| Sprint-2 | Test Case Generator | USN-3 | As a user, I can register for the application through Facebook | 2 | Low | Varun |
| Sprint-2 | Code Summarizer | USN-4 | As a user, I can input buggy code and get AI-fixed code instantly. | 2 | High | Yeswanth |
| Sprint-2 | |  | | --- | |  |   Floating Chat Assistant | USN-5 | As a user, I can ask questions to a floating chatbot about SDLC topics. | 3 | Medium | Yogesh |
| Sprint-3 | Frontend Navigation UI | USN-6 | As a user, I can navigate easily through a clean, organized UI with feature-specific pages. | 1 | High | Vinay |
|  | Dashboard |  |  |  |  |  |

**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 | 6 Days | 12 Oct 2022 | 16 June 2025 | 8 | 16 June 2025 |
| Sprint-2 | 7 | 6 Days | 17 June 2025 | 21 June 2025 | 7 | 21 June 2025 |
| Sprint-3 | 3 | 6 Days | 22 June 2025 | 24 June 2025 | 3 | 24 June 2025 |
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**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)