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

Date	27 June 2025
Team ID	LTVIP2025TMID29288
Project Name	SmartSDLC – AI-Enhanced Software Development Lifecycle
Maximum Marks	5 Marks

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

Sprint	Feature	User Story Number	User Story/ Task	Story Points	Priority	Team Members
Sprint-1	Requirement Classification	USN-01	As a user, I can upload a PDF of requirements and have it classified automatically by SDLC phase.	3	High	Member 1
Sprint-1	AI Code Generation	USN-02	As a user, I can input a prompt and get production-ready code using AI.	5	High	Member 2
Sprint-1	Documentation UI Setup	USN-07	As a user, I can view the classified outputs in a structured and readable format.	2	Medium	Member 3
Sprint-1	FastAPI Backend Setup	USN-08	Set up backend routes for requirement classification and AI prompts.	2	Medium	Member 4
Sprint-2	Test Case Generator	USN-03	As a user, I can enter a code snippet or feature description and get autogenerated test cases.	4	Medium	Member 1
Sprint-2	Bug Fixer	USN-04	As a user, I can paste code with bugs and get an AI-fixed version of the same.	4	High	Member 2
Sprint-2	Code Summarizer	USN-05	As a user, I can paste any code and get a human-readable explanation.	2	Medium	Member 3
Sprint-2	Floating AI Chatbot	USN-06	As a user, I can interact with a floating AI chatbot to get SDLC help.	4	High	Member 4

Workload Distribution (Total Story Points):

Member	Assigned Features	Total Story Points
Member 1	USN-01, USN-03	3 + 4 = 7
Member 2	USN-02, USN-04	5 + 4 = 9
Member 3	USN-07, USN-05	2 + 2 = 4
Member 4	USN-08, USN-06	2 + 4 = 6

This keeps the overall effort balanced. You can replace the Member 1/2/3/4 with actual names.

Project Tracker, Velocity & Burndown Chart

Project Duration: 20 June 2025 – 27 June 2025
Total Story Points: 24
Team Members: 4
Average Velocity: 24/8=3

Progress Tracker Table (Suggested Format)

Date	Planned Remaining Points	Actual Remaining Points	Comments
20 June 2025	24	24	Project Initiation
21 June 2025	21	21	Requirement module started
22 June 2025	18	18	Code Generator module initiated
23 June 2025	15	15	Initial testing modules added
24 June 2025	12	12	Bug fixer integrated
25 June 2025	9	8	Code summarizer almost complete
26 June 2025	6	5	AI Chatbot integrated
27 June 2025	3	0	Final deployment & documentation

Burndown Chart Description

- The Planned Line drops steadily from 24 → 0 in 8 days.

- The Actual Line closely follows planned progress.

- Slight improvement seen on 25–27 June due to efficient task execution.