Project Planning Phase

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

Date	27 June 2025
Team ID	LTVIP2025TMID59193
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	5	High	

			Python code.			
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 methodologies such as Scrum. 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.atlassian.com/agile/tutorials/burndown-charts

Reference:
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/epics
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