Project Planning Phase

Date	18th June 2025
Team ID	LTVIP2025TMID5942
Project Name	Smart SDLC – AI Requirement Analyzer
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	File Upload	USN-1	As a user, I can upload a .txt file containing requirements.	2	High	
Sprint-1	API Integration	USN-2	As a user, I can connect the app to OpenRouter API using a key.	3	High	
Sprint-1	Prompt Construction	USN-3	As a user, I can send text to the AI model for requirement extraction.	3	Medium	
Sprint-2	Response Handling	USN-4	As a user, I can view the structured requirements generated by the AI.	4	High	
Sprint-2	Deployment	USN-5	As a user, I can access the deployed app on Streamlit Cloud.	4	High	
Sprint-2	Error Handling	USN-6	As a user, I get notified when there is an error during analysis.	2	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	10	7 Days	16 June 2025	22 June 2025	10	22 June 2025
Sprint-2	16	7 Days	23 June 2025	29 June 2025	16	29 June 2025

Velocity Summary

- 🔢**Total Story Points Completed**:
Sprint 1 = 10, Sprint 2 = 16 → **Total = 26**
- **Sprint Duration**: 10 days
- **Team Size**: 4 members
- **Velocity (per sprint)**: 26 story points over 2 sprints = **13 points/sprint**

✅ **Average Velocity (AV)**
AV = Total Story Points / Total Days
AV = 26 / 10 = 2.6 story points/day

Per Team Member Velocity
Team Member Velocity = AV / Team Size
2.6 / 4 = 0.65 story points/day/person

Burndown Chart – Smart SDLC Project

A **Burndown Chart** is used to visually track the amount of work remaining in your project against the time available. For this project, which followed Agile methodology across two sprints, the burndown chart helped monitor progress on user stories and story points over the sprint duration.

What It Shows

- The **ideal progress line** slopes down from 26 to 0 across the sprint duration.
- The **actual progress line** tracks how quickly your team completed each story.
- Any gap between the two lines highlights **delays, blockers, or early finishes**.

Why It's Useful

- Keeps the team aligned and focused on daily progress.
- Helps project leads adjust priorities or resources if slippage is observed.
- Acts as a **visual indicator** of team performance and sprint health**.**

References

- Visual Paradigm – Burndown Charts
- Atlassian Guide – Burndown Charts
- Scrum with Jira