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

Date	18 Feb 2026
Team ID	LTVIP2026TMIDS80588
Project Name	TransLingua: AI-Powered Multi-Language Translator
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	Data Acquisition	USN-1	As a user, I can upload PDF and Image files to the application	2	High	
Sprint-1	Data Acquisition	USN-2	As a user, I can view my uploaded file in the session dashboard	1	High	
Sprint-1	Input Pre-processing	USN-3	As a system, I can enhance image quality to improve OCR accuracy.	3	High	
Sprint-1	Input Pre-processing	USN-4	As a system, I can extract and parse text from multi-page PDFs.	3	Medium	
Sprint-1	Input Pre-processing	USN-5	As a system, I can handle encoding for regional Indian languages.	3	Medium	
Sprint-2	Translation Engine	USN-6	As a user, I can translate document text using Gemini 3 Flash.	2	High	
Sprint-2	Translation Engine	USN-7	As a traveler, I can translate signs using the Gemini Vision API	2	High	
Sprint-2	Translation Engine	USN-8	As a user, I receive context-aware technical translation refinements.	2	Medium	
Sprint-2	Translation Engine	USN-9	As a system, I can automatically switch to Gemini 2.5 if 3.0 fails	4	Low	
Sprint-2	Dashboard	USN-10	As a user, I can navigate between Document and Vision translation tabs	5	High	

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2	Output Delivery	USN-11	As a user, I can download the translated output as a formatted PDF.	5	High	

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	12	6 Days	03 Feb 2026	08 Feb 2026	12	08 Feb 2026
Sprint-2	20	6 Days	10 Feb 2026	15 Feb 2026	20	15 Feb 2025

Velocity:

- Total Story Points Completed: 32 (12 from Sprint 1 + 20 from Sprint 2)

- Total Sprints: 2

- Average Velocity (AV): 32 ÷ 2 = 16 story points per sprint

- Velocity per Day: 16 story points ÷ 6 days = ~2.6 points per day

Burndown Chart:

1. Estimation Strategy: "For the Universal TransLingua AI project, we utilized Story Points as our estimation statistic. This allowed us to measure the complexity of integrating the Gemini Vision API and the Streamlit dashboard without the pressure of rigid hourly deadlines."

2. Tracking Logic: "We monitored our progress using a Sprint Burndown Chart.

- Sprint 1: Started with 12 points and ended at 0.

- Sprint 2: Started with 20 points and ended at 0. Our team Velocity was 16, meaning we successfully managed the scope of the translation tool within the planned timeframe."

3. Action taken from Chart: "During Sprint 2, the burndown chart showed a slight delay during the PDF formatting task. To stay on track, we prioritized the Core Translation Engine (USN-6) over the Failover Logic (USN-9), ensuring a functional product by the release date."

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

https://www.atlassian.com/agile/tutorials/sprints

https://www.atlassian.com/agile/project-management/estimation

https://www.atlassian.com/agile/tutorials/burndown-charts