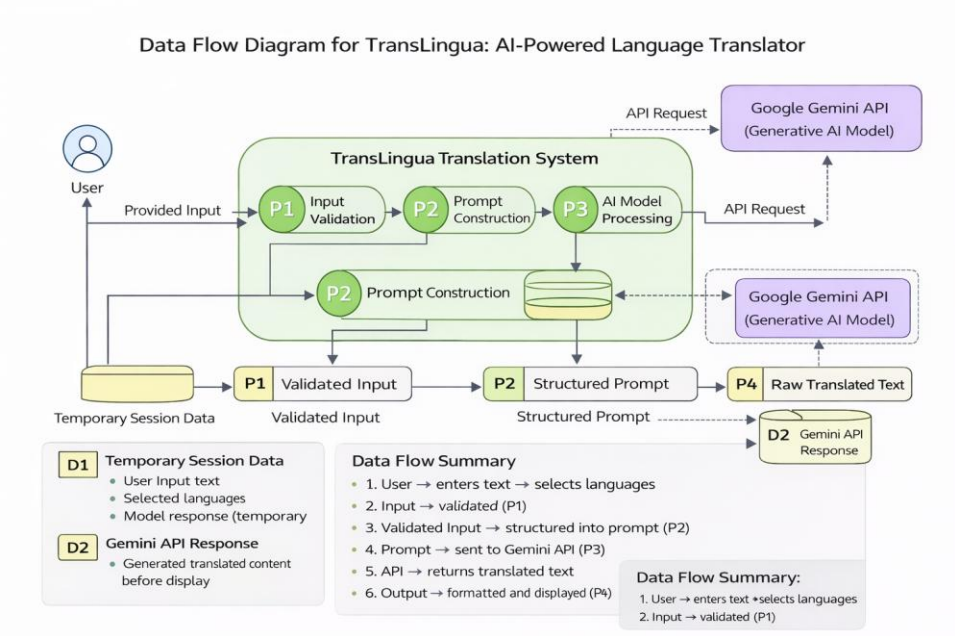
Project Design Phase-II
Data Flow Diagram & User Stories

Date	04 February 2026
Team ID	LTVIP2026TMIDS49772
Project Name	TransLingua: AI-Powered Multi-Language Translator
Maximum Marks	4 Marks

Data Flow Diagrams:

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.



User Stories

Use the below template to list all the user stories for the product.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Mobile user)	User Interface Setup	USN-1	As a user, I can access a Streamlit-based interface to enter text and select source and target languages.	I can enter text and choose languages successfully.	High	Sprint-1
Administrator	Input Validation	USN-2	As a user, I want the system to validate my input text and selected languages before translation.	I receive validation messages for empty or incorrect inputs.	High	Sprint-1
System	AI Model Integration	USN-3	As a user, I want the system to translate text using the Google Gemini API.	The system successfully integrates with Gemini and returns translated text.	High	Sprint-2
Administrator	Prompt Engineering	USN-4	As a developer, I want to construct structured prompts to ensure contextual and accurate translation.	Prompts are correctly formatted and produce context-aware translations.	Medium	Sprint-2
Customer (Mobile user)	Output Display	USN-5	As a user, I want to view the translated text clearly on the screen.	Translated output is displayed in a readable format.	High	Sprint-3
Customer Care Executive	Deployment	USN-6	As a developer, I want to deploy the application on Streamlit Cloud so users can access it online.	successfully deployed and accessible via URL.	Medium	Sprint-3