

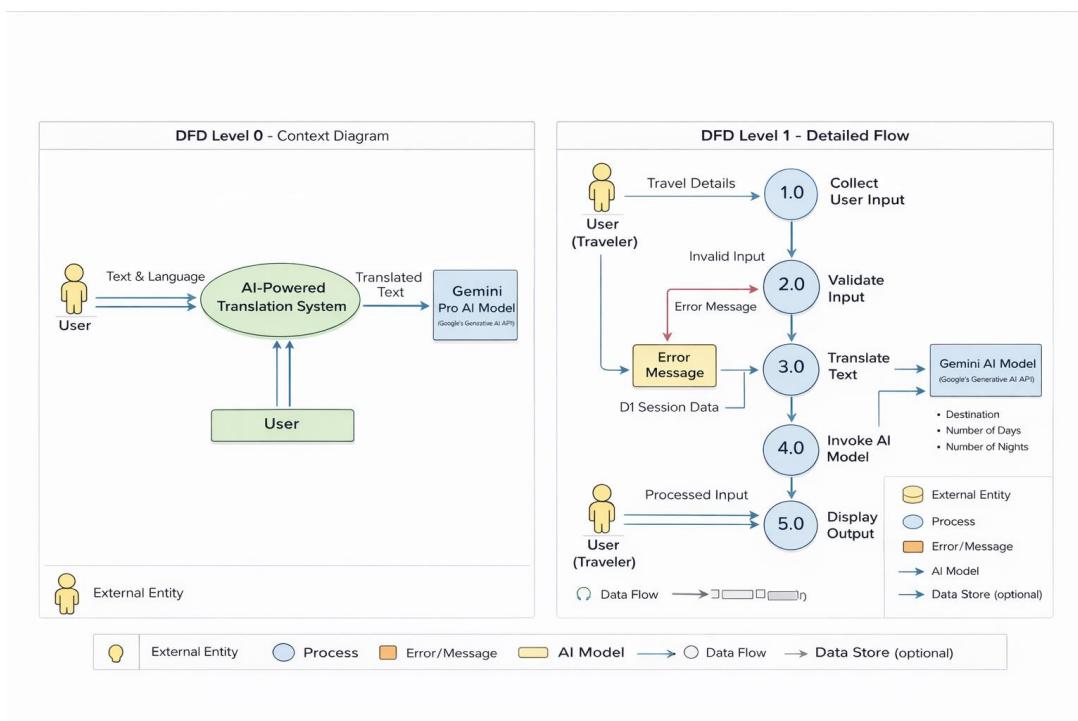
Project Design Phase-II

Data Flow Diagram & User Stories

Date	04 February 2026
Team ID	LTVIP2026TMIDS66199
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 (Web User)	Text Translation	USN-1	As a user, I can enter text, select source language and target	The system generates accurate translated text based on the	High	Sprint-1

			language to translate content.	selected languages.		
Customer (Web User)	Input Validation	USN-2	As a user, I want the system to validate my text and language selections before translation.	If text is empty or languages are not selected, the system displays an appropriate error message.	High	Sprint-1
Customer (Web User)	AI Integration	USN-3	As a user, I want the system to use Gemini Generative AI to translate text contextually.	The AI generates context-aware and meaningful translated text.	High	Sprint-2
Customer (Web User)	Output Display	USN-4	As a user, I want to view the translated text clearly on the web interface.	The translated text is displayed in a readable and properly formatted layout.	Medium	Sprint-2
Customer (Web User)	Error Handling	USN-5	As a user, I want the system to handle API or runtime errors gracefully.	If an API failure or runtime error occurs, the system shows a user-friendly error message without crashing.	Medium	Sprint-3
Customer (Web User)	Multi-Language Support	USN-6	As a user, I want the system to support translation between multiple languages.	The system allows selection from multiple languages and performs translation correctly.	Medium	Sprint-3

Customer (Web User)	Performance & Responsiveness	USN-7	As a user, I want the translation to be generated quickly.	The translation is displayed within acceptable response time (few seconds).	Low	Sprint-3
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