

Project Design Phase-II
Solution Requirements (Functional & Non-functional)

Date	18 Feb 2026
Team ID	LTVIP2026TMIDS80588
Project Name	TransLingua: AI-Powered Multi-Language Translator
Maximum Marks	4 Marks

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	Document Translation	PDF Upload, Byte extraction, Context preservation.
FR-2	Vision Translation	Live Camera Capture, JPEG OCR, Sign translation.
FR-3	Language Support	Selection of Source and Target (Hindi, Telugu, etc.).
FR-4	Manual Input	Direct text area for copy-pasted content.

Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Simple 3-tab interface for non-technical users.
NFR-2	Accuracy	High precision in technical/academic translations.
NFR-3	Reliability	Failover logic to handle "429 Quota Exceeded" errors.
NFR-4	Performance	Translation results generated within 3–5 seconds.