



Vishwakarma Institute of Technology

Video Dubbing System

Group No. 15

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Problem Statement

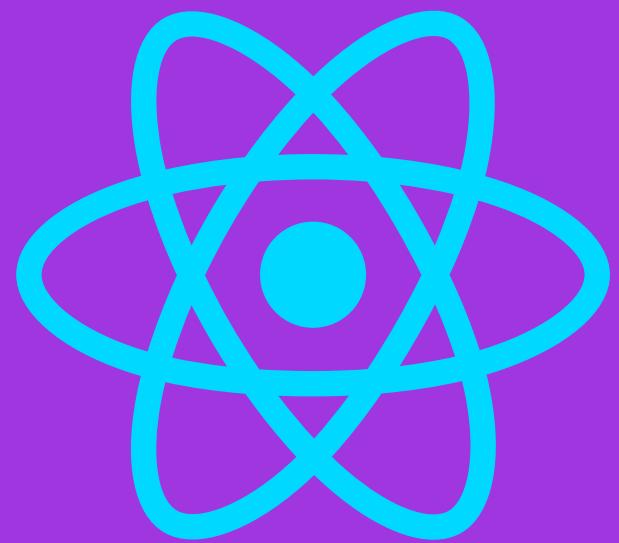


**Developing a software for dubbing of videos
from English to other Indian regional languages.**

User-friendly video dubbing website enriched with advanced AI solutions, hence the Indian government can communicate effectively with citizens of diverse linguistic backgrounds



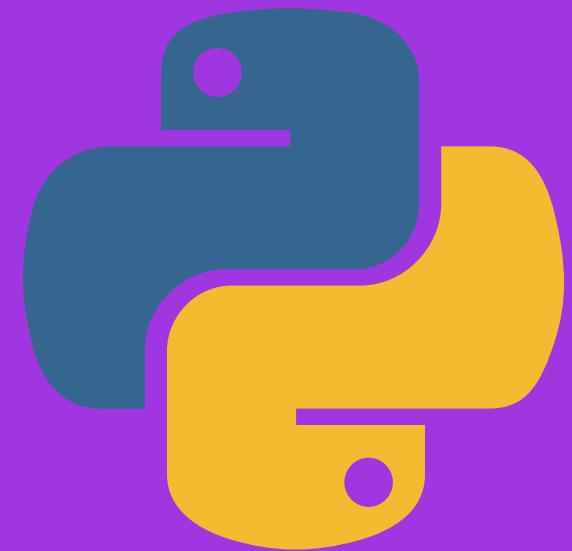
Tech Stack



Front-end
ReactJS

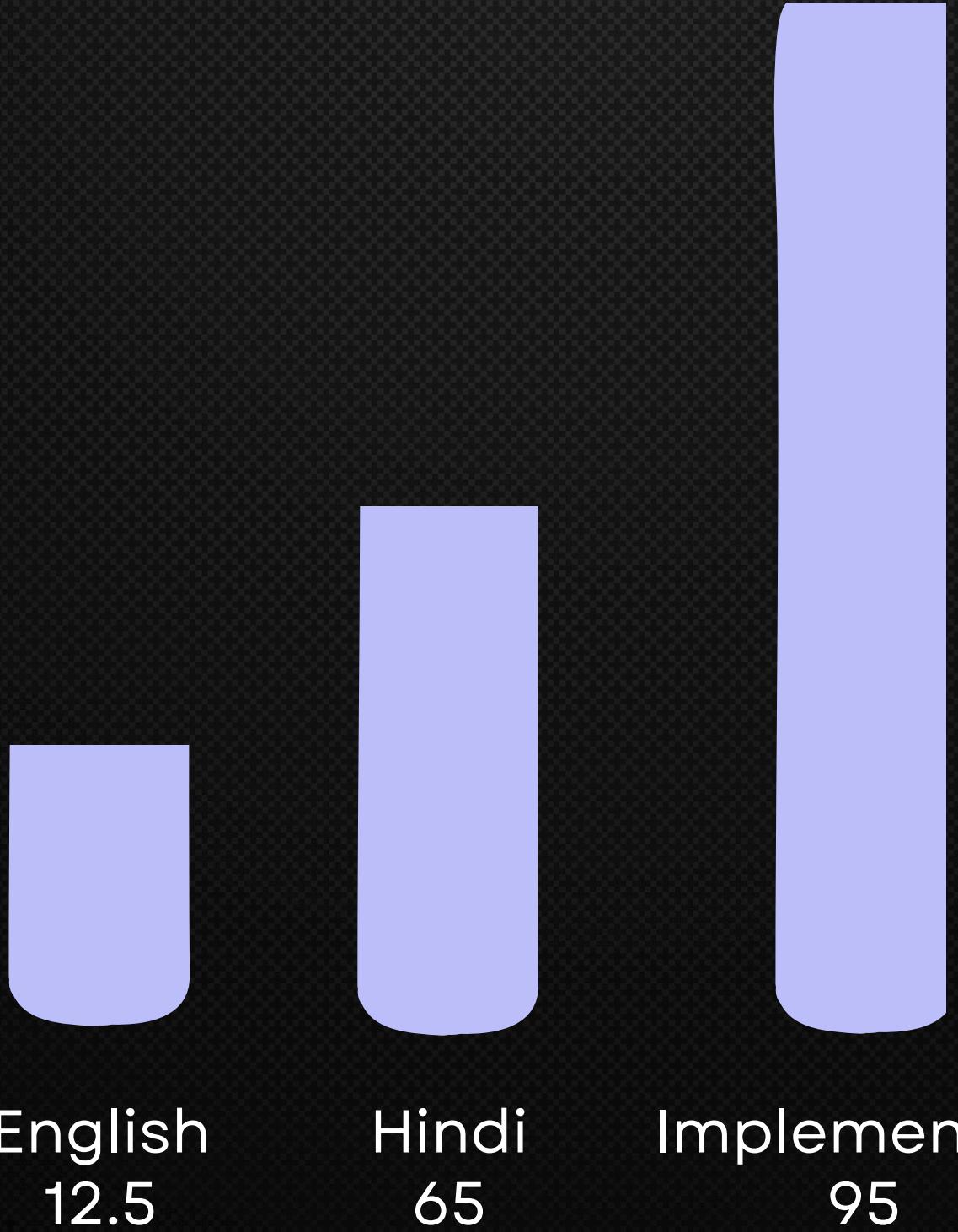


Back-end
Python-Flask



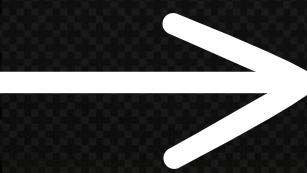
Machine Learning
Python

Reach



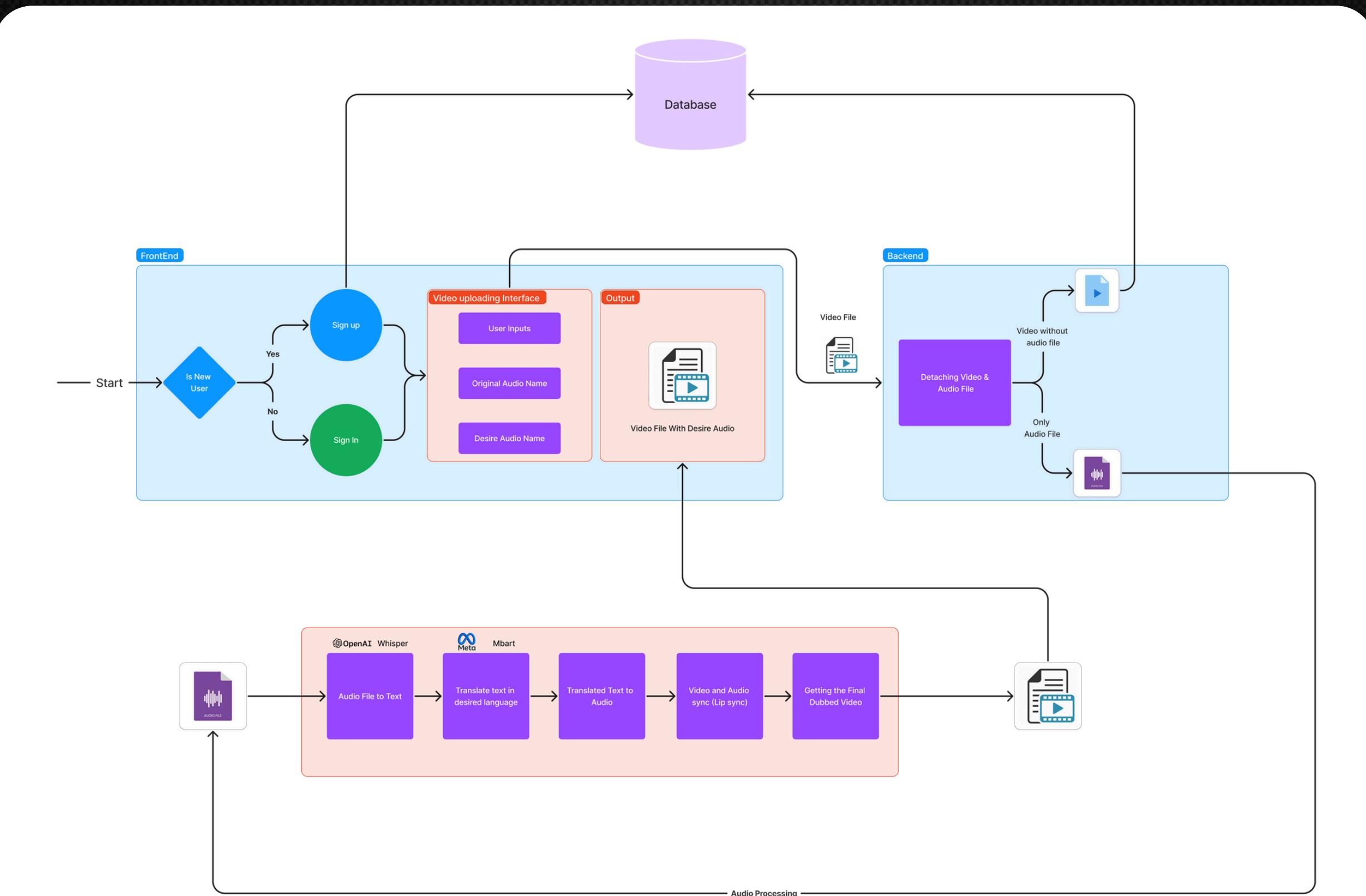


**English
Video file**

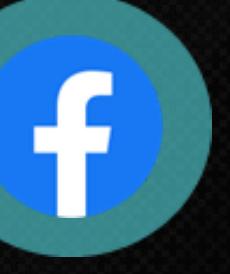


- Translate and dub videos
- Enable government communication.
- Audio-video synchronization
- Deploy machine translation algorithms

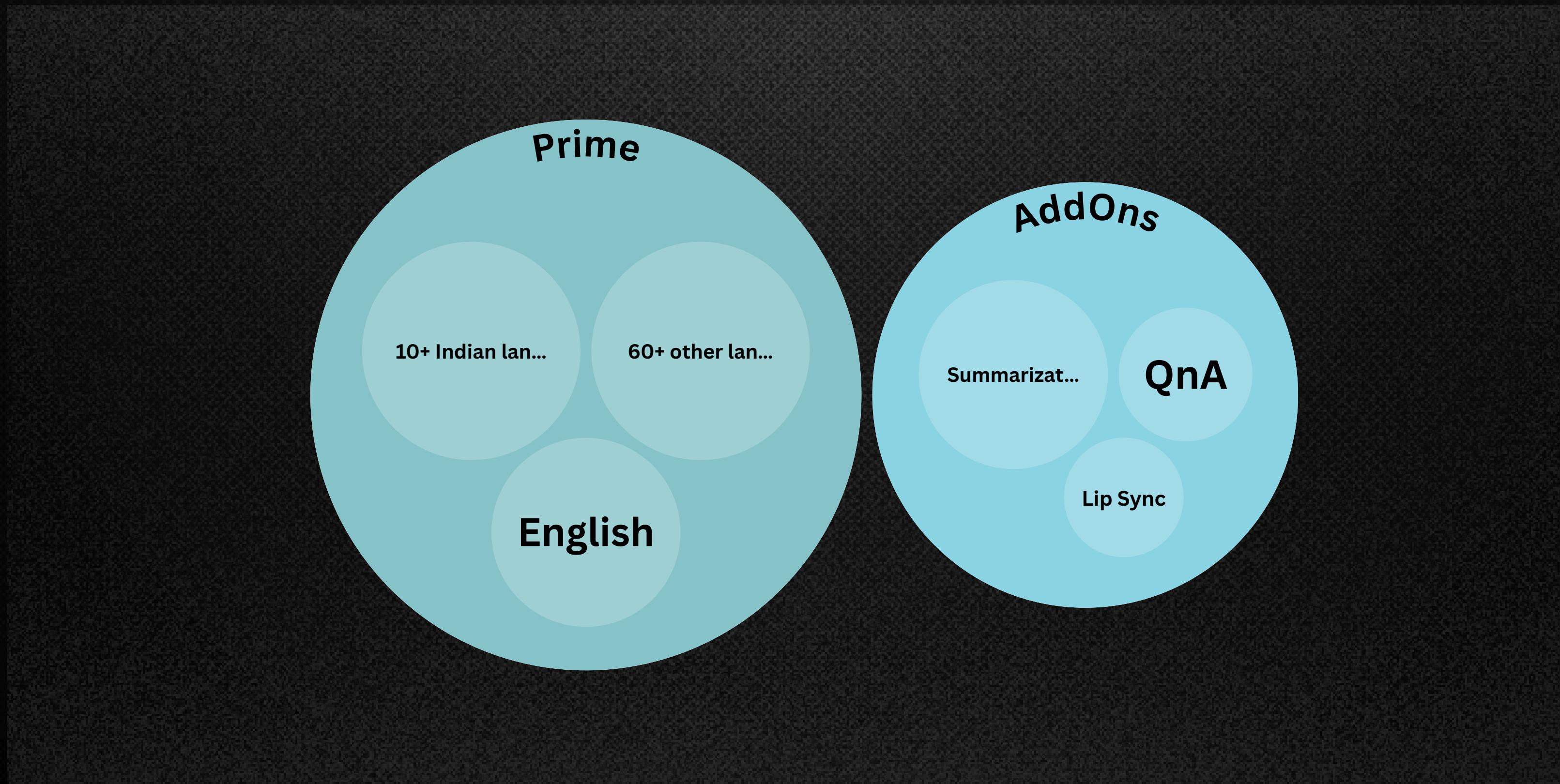
Flow Diagram



Basic Methodology

- Extract audio from input video : **Python Library – MoviePy** 
- Audio(Speech) to Text : **OpenAI/whisper** 
- Text Translation : **facebook/mbart-large-50-one-to-many-mmt** 
- Text to Speech : **Silero**
- Video and Audio sync (Lip sync) : **wav2lip**

Features



Output by the model used by us : wav2lip



Input video : English



Output video : Hindi

USER INTERFACE



Thank You
