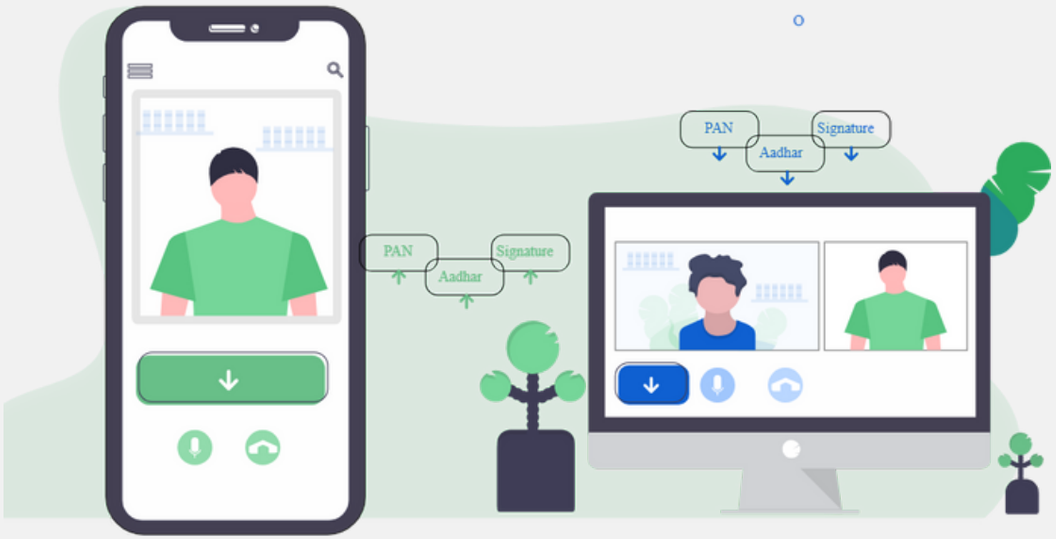
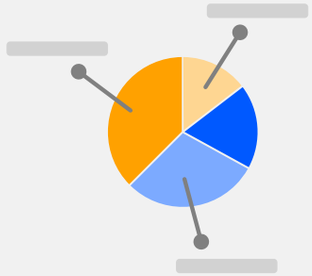




Empowering Identities, One Interaction at a Time

Know Your Customer (KYC)

Unlocking Inclusive Identity Verification Through Conversational Video KYC.

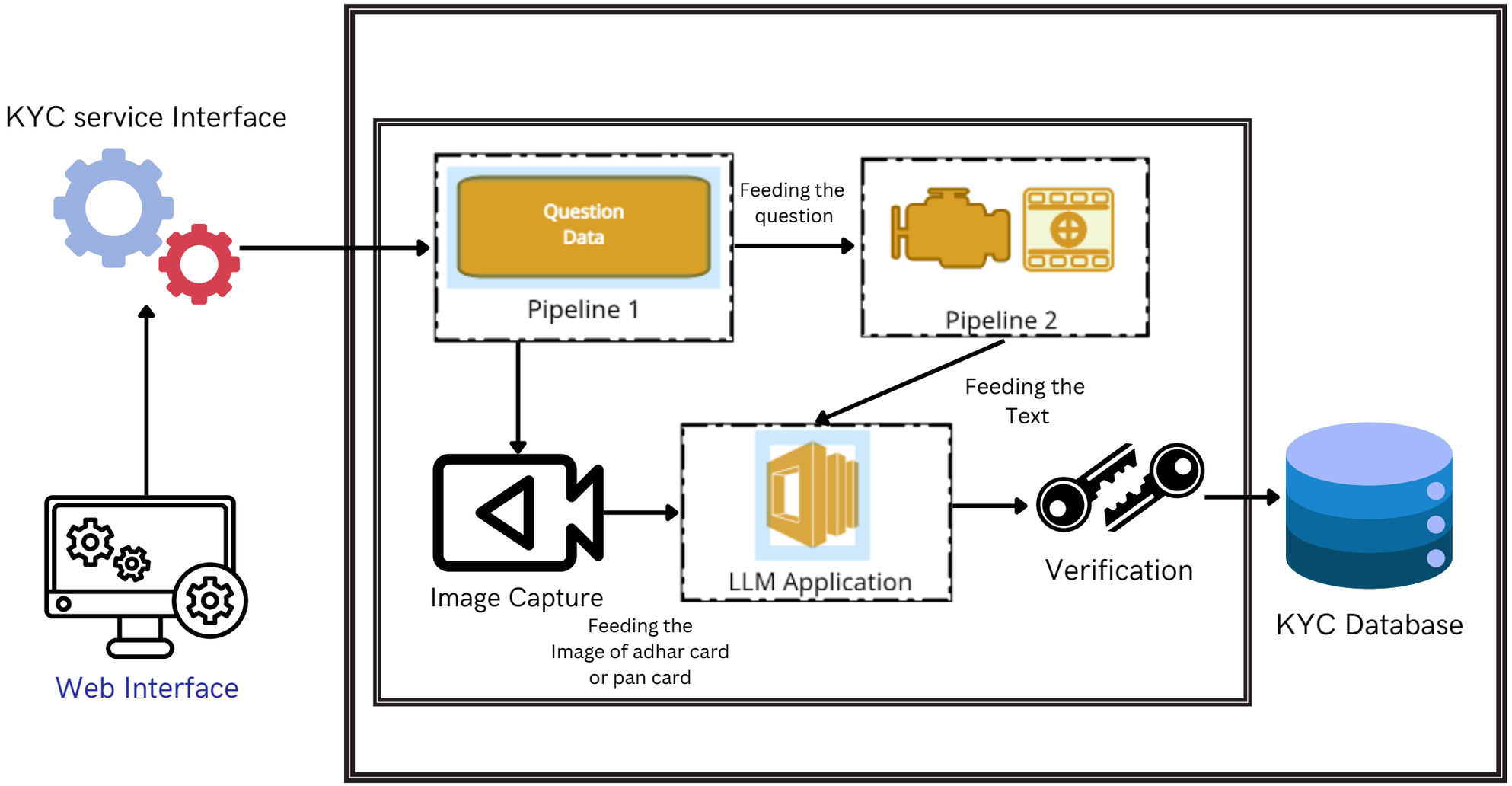
Problem Statement

- Currently Know Your Customer (KYC) is largely an offline and manual process OR non-interactive online process.
- Create an online interactive process to do video KYC which is intuitive and self-sufficient. KYC should capture the user's live photograph and their basic details like name, DOB, address, pan card / Aadhaar, signature, income range, type of employment in a conversational manner.
- This tool should be highly inclusive and should have high reach across languages and generations irrespective of financial and education gap.

Our Approach

- We've developed a robust dual pipeline architecture to streamline the online KYC process. One pipeline is dedicated to posing questions to users, while the other efficiently processes user inputs.
- Integration of a Language Model (LLM) enables precise extraction of user-provided information, ensuring accuracy and reliability in capturing essential details like name, DOB, address, income range, and type of employment.
- By incorporating Optical Character Recognition (OCR), our system seamlessly detects Aadhaar and PAN numbers from video captures, reducing manual effort for users.

System Architecture



Tech Stack

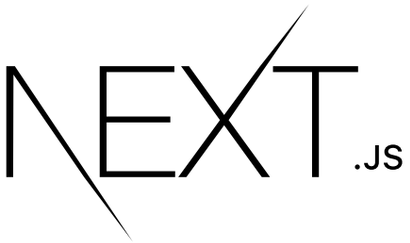
- **Next.js:**
- Use Case: Creating the Pipelines and Application Structure.

- **Tailwind CSS:**
- Use Case: Tailwind CSS is employed to design and style the user interface of the application.

- **Langchain:**
- Use Case: Langchain is utilized to integrate the Gemini Large Language Model (LLM) for precise extraction of user-provided information.

- **PostgreSQL:**
- Use Case: Database management.

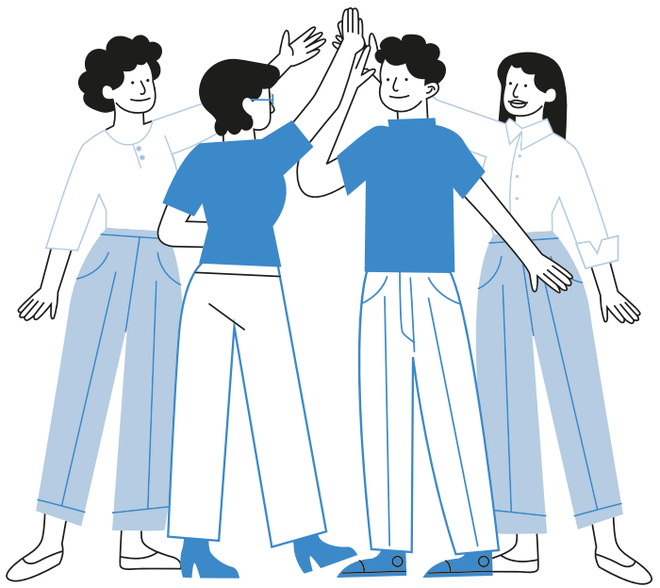
- **Easy Speech npm:**
- Use Case: Text-to-speech and speech-to-text conversion.



Showstoppers

Dual Pipeline Architecture: High Scalability	Integration of LLM Model:	Live Image Capture and Recognition:
The dual pipeline architecture not only ensures scalability but also enhances the flexibility of the system. More questions can be added to the system without any issues.	By integrating the Gemini Large Language Model (LLM), our product is equipped with advanced natural language processing capabilities.	This innovative approach eliminates the need for users to manually enter their identification details, by seamlessly capturing and extracting information from identity documents in real-time.

Team Details



✓	Anubhav Pathak	RA2111003010120
		Email - am0006@srmist.edu.in
✓	Sahiti Naidu	RA2111003010101
		Email - sp9740@srmist.edu.in
✓	Archita Sinha	RA2111003010126
		Email - as1712@srmist.edu.in
✓	Soumik Mallick	RA2111003010125
		Email - su9358@srmist.edu.in
✓	Akshit Singh	RA2111003010082
		Email - as6265@srmist.edu.in