

System Smart Video Call & Collaboration Platform

Client Overview

The client is a multinational organization headquartered in the United States and South Korea. They aimed to build an enterprise application to streamline global operations. The platform features AI-powered video calling with multilingual support (English, Korean, Chinese, and Japanese).

Overview

As remote and hybrid work became the norm, teams needed more than basic video calls—they required intelligent tools that improve clarity, accessibility, and global collaboration. To meet this need, a smart video calling and collaboration platform was developed with real-time captions, translation, and advanced meeting management features for distributed teams.

Business Challenge

Organizations using traditional video conferencing tools faced several challenges:

- Language Barriers
- Global teams struggled to communicate clearly across languages.
- Accessibility Gaps
- Hearing-impaired users or those in noisy environments missed key information.
- Poor Meeting Documentation
- Important decisions were lost without reliable transcripts or recordings.
- Limited Meeting Control

Solution

A next-generation video call platform was designed with built-in intelligence and user-centric controls.

Core Capabilities

- A) High-Quality Video Meetings
- B) Live Captions (Speech-to-Text)
- C) Real-Time Translation

System Smart Video Call & Collaboration Platform

D) Recording Controls

E) Participant & Host Controls

F) Clean, Minimal UI

G) Screen Sharing

Screen sharing enables clearer communication during demos, training, and troubleshooting. Teams can present documents, slides, or live workflows in real time, reducing back-and-forth explanations and improving meeting efficiency.

Key Learnings

- Accessibility features benefit all users, not just a few
- Real-time AI features add significant user value
- Simple UI drives higher adoption than feature-heavy design
- Host controls are critical for professional environments

AI Implementation for Translation & Multilingual Support

The platform integrates advanced Artificial Intelligence models to enable accurate, low-latency translation across multiple languages.

1. Real-Time Speech Recognition (ASR – Automatic Speech Recognition)

2. Multi-Language Support

The system supports translation between multiple languages, including:

- English | Spanish | Japanese | Korean | Chinese | And additional global languages

Users can:

- Select their **spoken language**
- Choose a **preferred translation language**
- Receive captions in real time in their selected language

3. Low-Latency AI Processing

- Optimized cloud-based inference

System Smart Video Call & Collaboration Platform

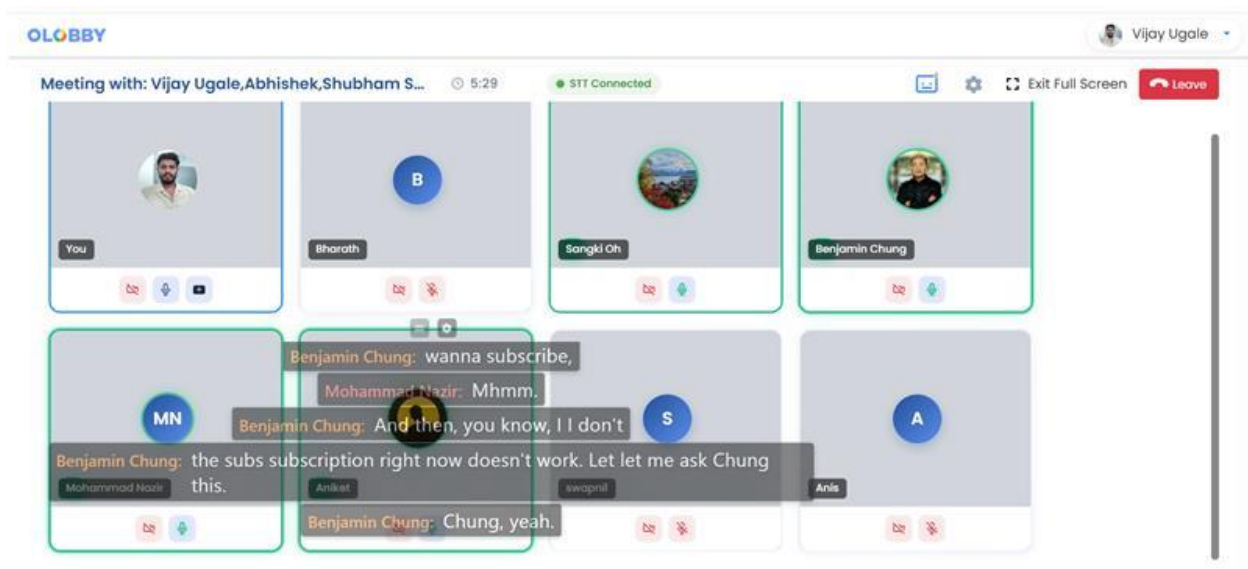
- Near real-time caption display
- Minimal delay between speech and translated output

4. Accessibility Intelligence

- AI detects unclear audio and enhances transcription
- Enables multilingual captions for inclusive participation
- Supports hearing-impaired users and cross-border collaboration

Conclusion

The smart video call platform evolved from a basic conferencing tool into an intelligent collaboration system. By integrating captions, translation, and structured meeting controls, it transformed how distributed teams communicate—making meetings more inclusive, efficient, and productive.



System Smart Video Call & Collaboration Platform

