

# A CLOUD BASED VIDEO CONFERENCING APP

Powered by chatGPT, openVidu, amazon Transcribe,  
amazon Translate

# MAIN COMPONENTS

- Authentication: Sign-Up/Sign-In page using AWS Cognito
- Video Conferencing:
  - A react frontend and flask backend which facilitates the video call.
  - An openVidu Server to handle WebRTC communication
  - Analytics Data collection using DynamoDB, SQS
- Meeting Analysis
  - Video Analysis: Transcript Generation, ChatGPT summary of Transcript and language Translation.
  - Meeting Analysis: Participant Activity Collection, Attendance.



# WE TAKE PRIDE IN

- The Meeting data collection flow using SQS, DynamoDB and a python Flask App.
- Video Analysis using chatGPT, AWS Transcribe, AWS Translate.
- Writing a working Video Call frontend even though it looks a bit bland this was hard.
- Host Controls and feature that emails Meeting Details

# CHALLENGES FACED

- User Interface.
- Analytics flow that captures the events in meeting.
- Integration with chatGPT API, AWS transcribe and translate at the same time.
- Logic to configure HOST controls.

# FURTHER IMPROVEMENTS

- A better User Interface
- Leveraging EKS for scaling the Application Server(Flask Application) and OpenVidu Server(WebRTC communication facilitator)
- Better Individual Analysis on what a particular participant spoke about
- Closed Captions
- Background Filters