Project Title: StandupSync

Track: LLM API Endpoint

Team Name: Ctrl+Alt+Elite

Team Leader: Aparna Goyal

Team Leader Contact: aparnagoyal.0003@gmail.com

Team Members' Details

Team Member 1: Name: Swapnil Kumar Singh

Branch: Btech Stream: CSE Year: IV

Contact: swapnilssingh06@gmail.com Mobile: +91 7906840923

Team Member 2: Name: Sanidhiya

Branch: Btech Stream: CSE Year: IV

Contact: sanidhiyafirefox123@gmail.com Mobile: +91 9717806952

Team Leader Name: Aparna Goyal

Branch: Btech Stream : CSE Year: IV

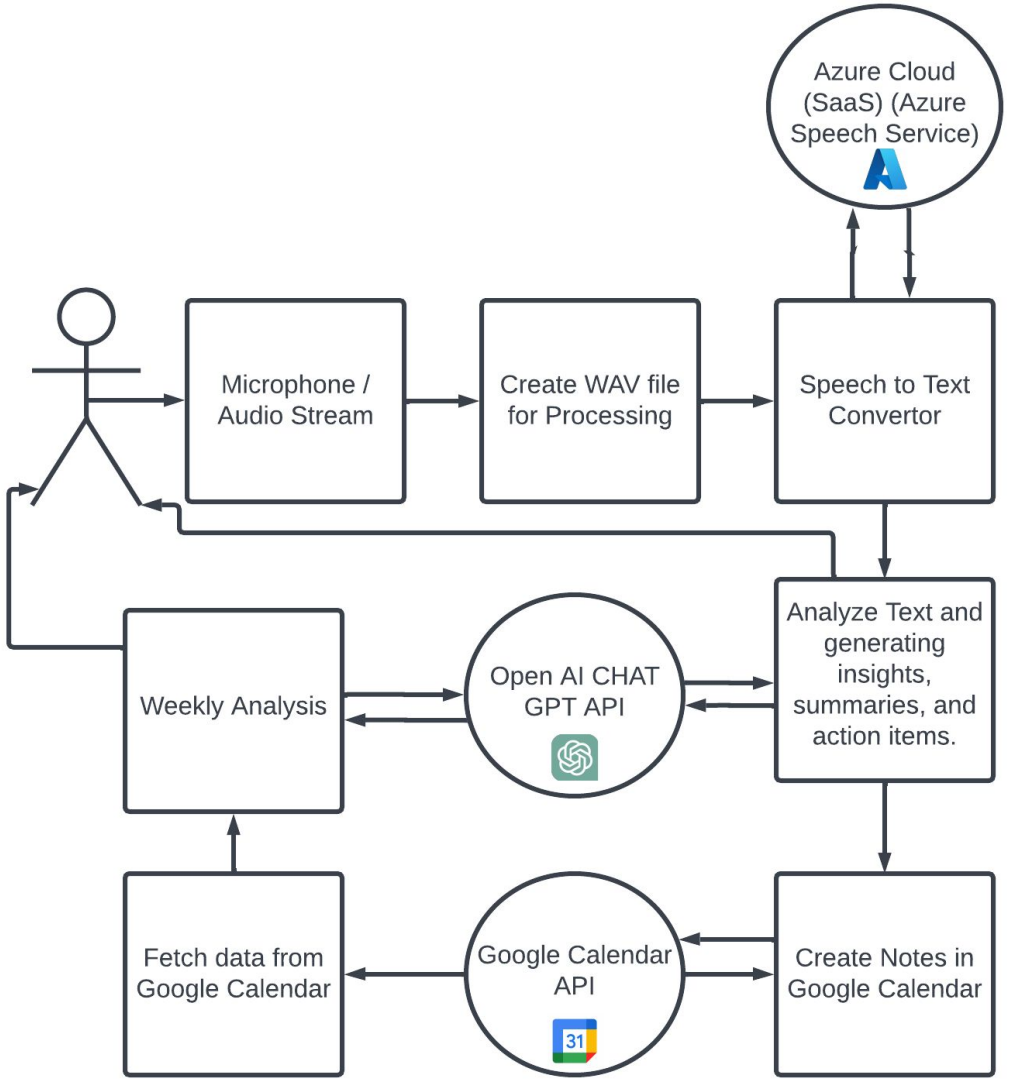
Contact: aparnagoyal.0003@gmail.com Mobile: +91 9888555820

Problem Statement

- Lack of comprehensive software for tracking and analyzing Daily Stand-Up Meetings (DSMs).
- Challenges in improving collaboration and individual contributions without systematic DSM insights.
- Difficulty in identifying areas of improvement and tracking bug origins.
- Manual analysis of DSMs leading to inefficiency in resource utilization.
- Limited ability to generate actionable insights and performance metrics from DSM discussions.
- Difficulty in tracking meeting insights and providing timely feedback.

Solution

- Implemented **routes and endpoints** within the **Flask-based API** to handle audio processing, insights extraction, and summary generation.
- Integrate the DSM transcription module to convert audio recordings into text using **Azure speech-to-text API.**
- Utilize the **GPT API** for **natural language processing** tasks and analysis..
- The API is fluent in US-English, Spanish and majority of our **Indic-Regional languages** as well.
- Seamlessly integrate with team members' **Google Calendars** to automatically add notes and reminders based on extracted **DSM insights.**



❖ Workflow:

- ➢ User selects the **preferred language**.
- ➢ User chooses the **audio input source** (Microphone or Audio Stream).
- ➢ Audio is **recorded** and saved as a **WAV file**.
- ➢ **Speech-to-text** conversion is performed using the selected language and **Azure Speech Recognition API**.
- ➢ The transcribed text is processed using the **GPT API** to **extract insights, summaries, and action items**.
- ➢ The resulting text is sent to **Google Calendar** for event creation and notification.
- ➢ Enabling **weekly analysis** based on Google Calendar data.

❖ Use Cases:

- ➢ **Automated transcription** and analysis of DSMs.
- ➢ Improved **productivity and efficiency** in meeting discussions.
- ➢ Seamless integration with **Google Calendar** for event management.
- ➢ **Multilingual support** for enhanced user experience.

❖ Future Scope:

- ➢ Developing a Interactive Dashboard
- ➢ Voice Assistant Integration
- ➢ Enhanced Scalability
- ➢ Custom Analysis Periods

Tech Stack/ Methodology

1. **Python**: For server-side development.
2. **Flask**: For building the API server.
3. **OpenAI GPT API:** For Natural Language Processing and Text Generation.
4. **Google Calendar API:** For notes creation and notifications.
5. **SpeechRecognition Library:** For speech-to-text conversion.
6. **JSON** and **RESTful API** for data exchange.
7. **Git** for version control and collaborative development.

USPs

- ★ **Real-time Transcription**
- ★ **Multilingual Support**
- ★ **Accurate Speech-to-Text Conversion**
- ★ **Intelligent Meeting Highlights**
- ★ **Google Calendar Integration**
- ★ **Weekly Data Analysis**
- ★ **Enhanced Efficiency**