

# REAL TIME PODCAST TRANSLATING, TRANSCRIBING, AND RECOMMENDATION SYSTEM

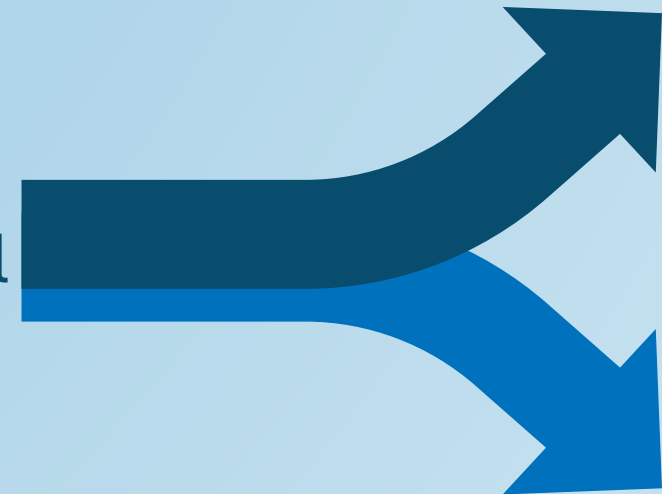
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## PROBLEM

There is an imbalance of languages in educational podcasts



## SOLUTION

Cloud based system for translation of podcasts.

Enable users to share and explore podcasts through a recommendation system.

## TECHNOLOGY

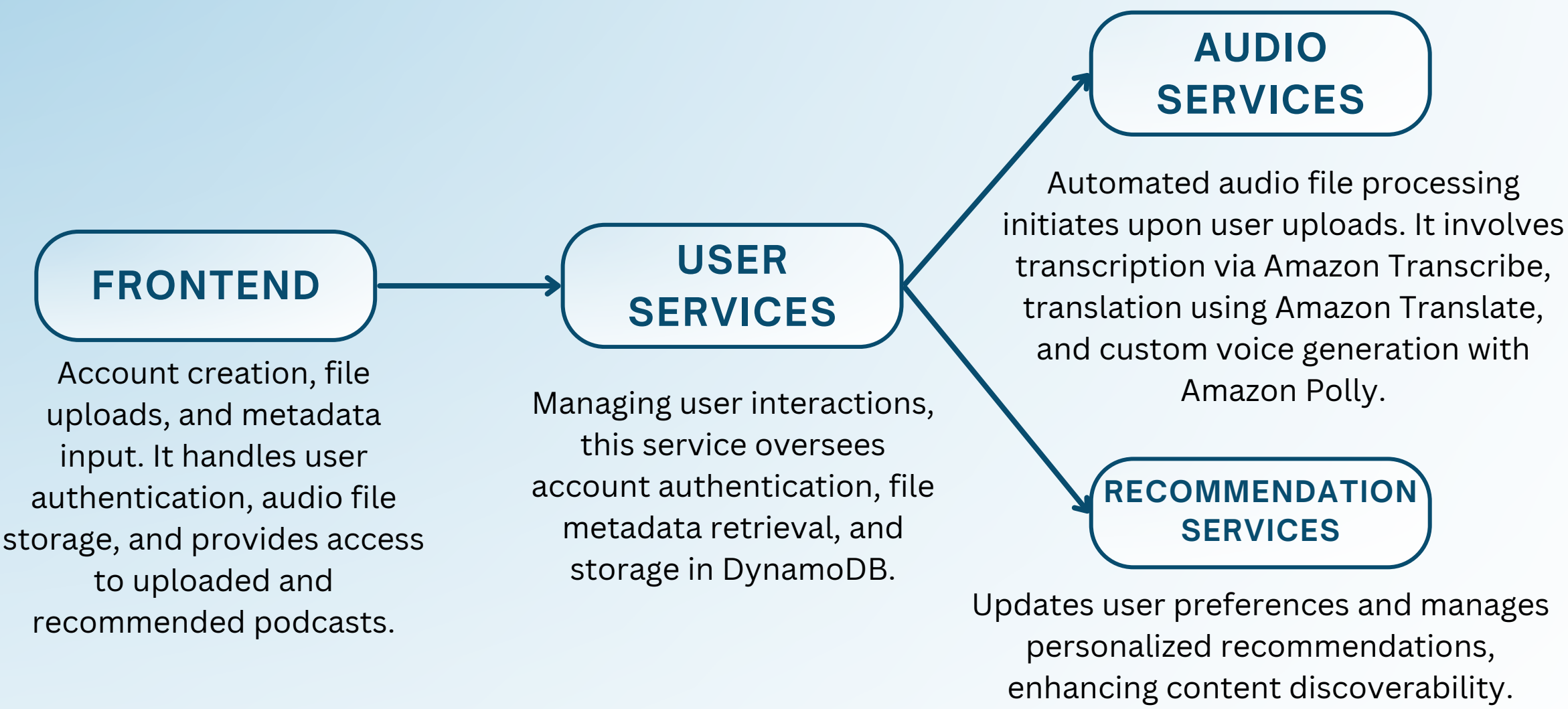
Machine learning advancements to ensure high-quality translations.



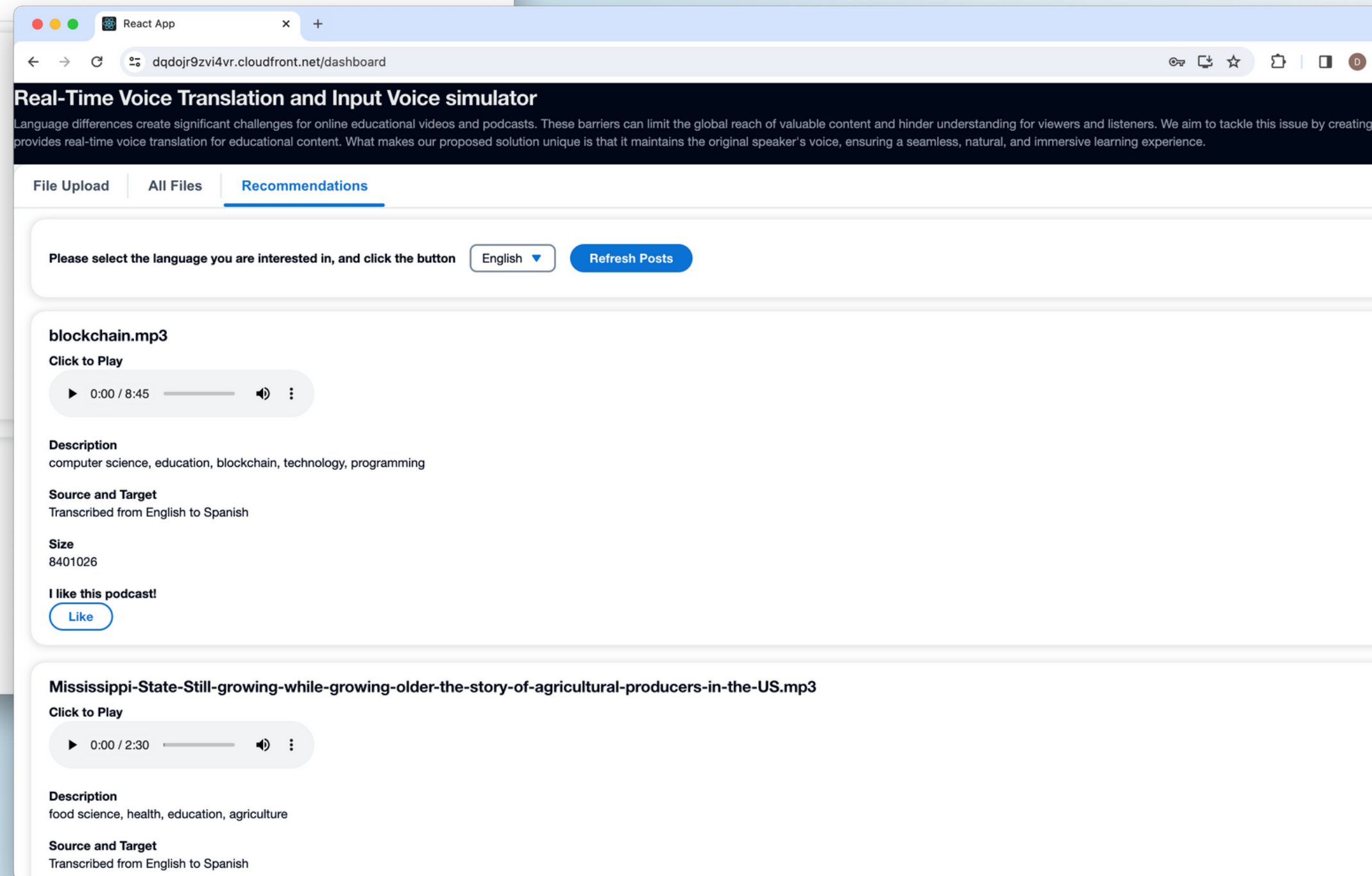
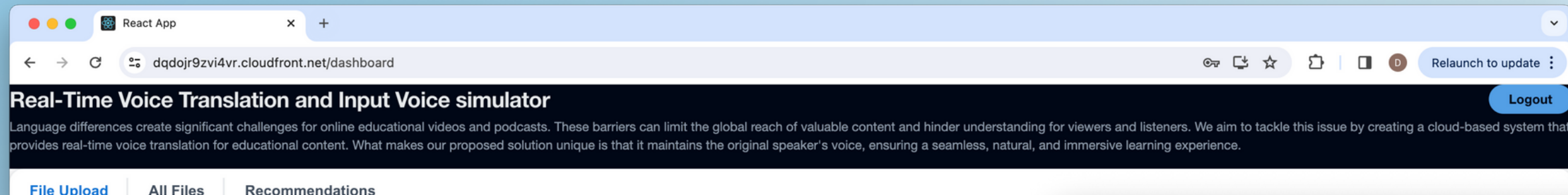
Robust AWS infrastructure for scalability and efficiency.



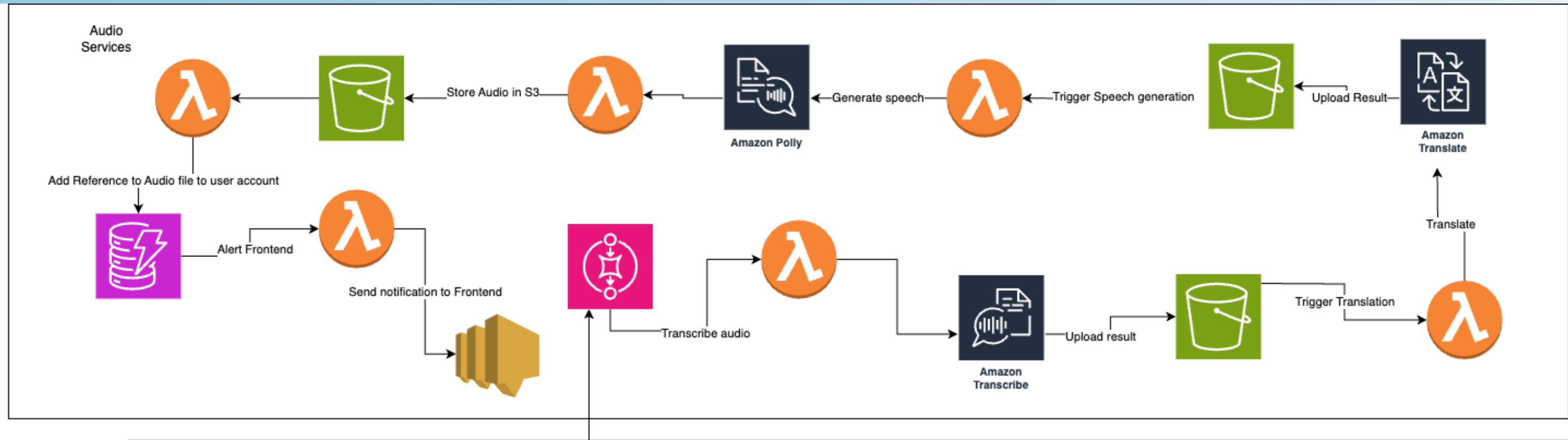
# ARCHITECTURE OVERVIEW



# FRONTEND

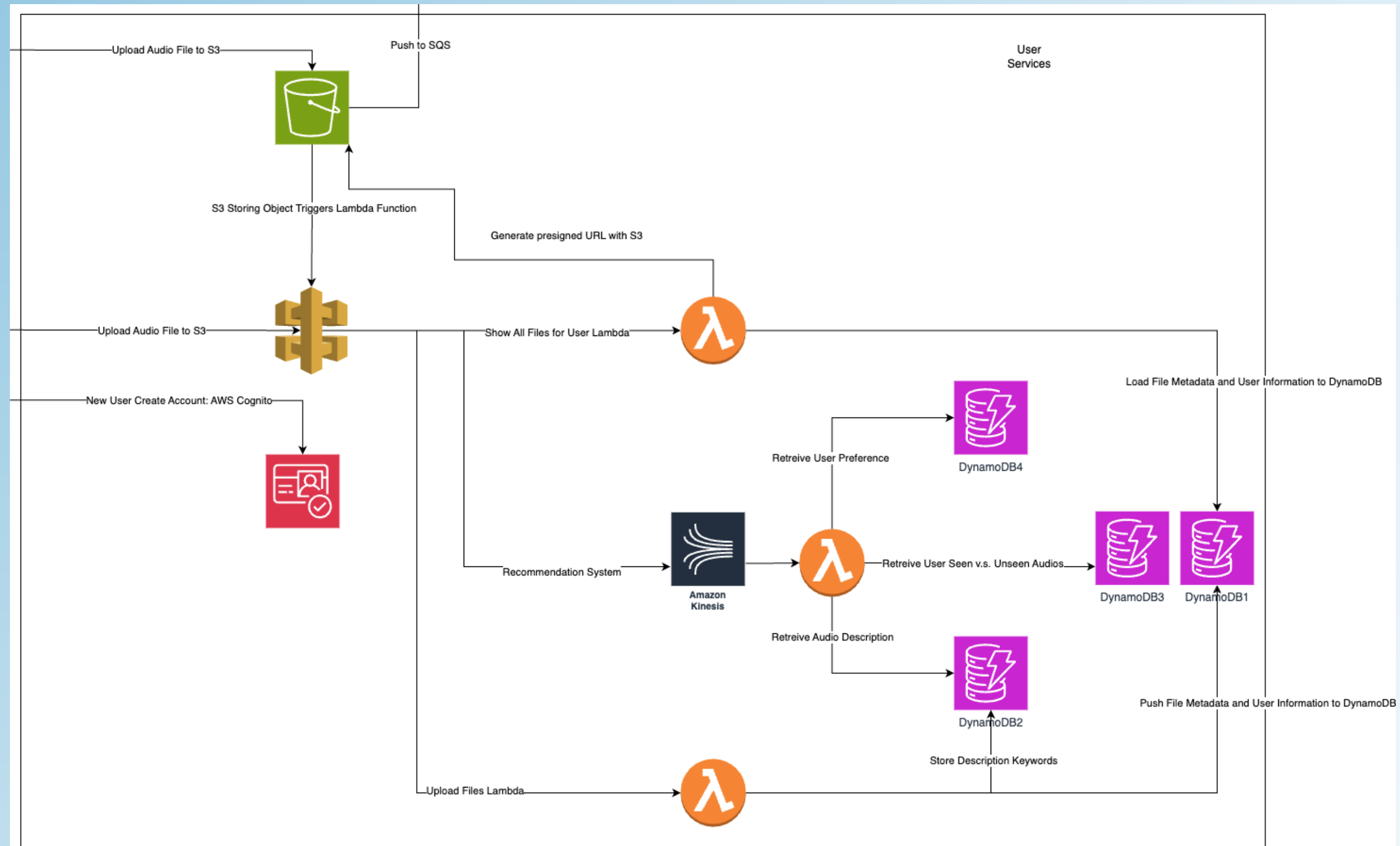


# AUDIO SERVICES





# USER AND RECOMMENDATION SERVICES



# CONCLUSION

- **Successful Implementation:** The system has successfully demonstrated audio processing, user interaction, and recommendation services leveraging AWS infrastructure.
- **Enhanced User Experience:** Users can transcribe, translate, and generate custom voice audio, empowering language diversity in podcasts.
- **Scalability and Reliability:** Utilizing AWS services ensured scalability and reliability during processing, ensuring a consistent user experience.

# FUTURE IMPROVEMENTS

- **Language Expansion:** The current system only supports English to Spanish translation due to development costs. This should be expanded to support various languages.
- **Enhanced Recommendation Algorithms:** Implement more advanced recommendation algorithms to provide more accurate and personalized content suggestions.
- **Real-time Collaboration:** Enable real-time collaboration features, allowing users to collaborate on audio projects or share real-time translations.