Mobile App for Remote Recording

The Capstone Experience

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Project Overview

• This project strives to bring native language features to the MSU Linguistics mobile app for remote recording
• We are redeveloping the current Flutter app into Kotlin for Android and Swift for iOS
• Modular code to accommodate multiple research projects with different needs
• Create non-programmer friendly documentation for easy customization
System Architecture

### Backend

- **Google Cloud Speech API**
  - Returns JSON of transcript by sentence
  - Stored in Server

### Docker

- **node.js**
- **FeathersJS**

### Frontend

- **K** (presumably Kivy)
- **Android**
- **Apple**

### File Upload

- Audio Recording
- MI Diaries Upload
- Audio converted to .WAV and stored

### Process

- Audio uploaded to Google STT
- Analyzed for metadata through ffmpeg
- History calculated and displayed
Profile Management
Login Screen

- Name: Charles
- Email: coolguy@hotmail.com

- Fill in the fields: First Name, Last Name, Email Address
- Click Log In or Register
Audio Recording / Image Capture
User Recording History
User Recording Statistics

Current Streak: 1
Total Contribution: 4 in minutes
Best Streak: 1
Longest Recording: 3 in minutes
What’s left to do?

• Redesigning the user interface
• Fully functional app for iOS
• Documentation for non-programmers
• Local registration feature
Questions?