Beta Presentation
Build-an-App for Humanities Researchers
The Capstone Experience
Team Michigan State University Linguistics

Daniel Magaway
Albert Crooks
Shiyu Yan
Hemkesh Agrawal
Tess Coleman

Department of Computer Science and Engineering
Michigan State University
Spring 2023
Project Overview

• **MI Diaries** is a user facing app that is used to record audio diaries and track progress remotely

• **App-Builder** is a web application that allows other researchers to customize the mobile app and release their own versions easily
System Architecture

Main Packages:
- `flutter_sound`
- `flutter_hive`

Main App

Back-end Server

App Builder customizes and builds the main app

Back-end Server
- `pytho`n
- `Flask`

Front-end

Containerized
- `docker`

Flutter

Android

iOS
Mobile App
Mobile App
App-Builder
App-Builder
What’s left to do?

• Features
• Stretch Goals
  ▪ Allow users to save and resume customization sessions
  ▪ Save recordings on device to submit later (for bad internet)
• Other Tasks
  ▪ Meet with the researcher again to take more feedback on the latest version
  ▪ Do more testing to find and fix any last bugs
Questions?