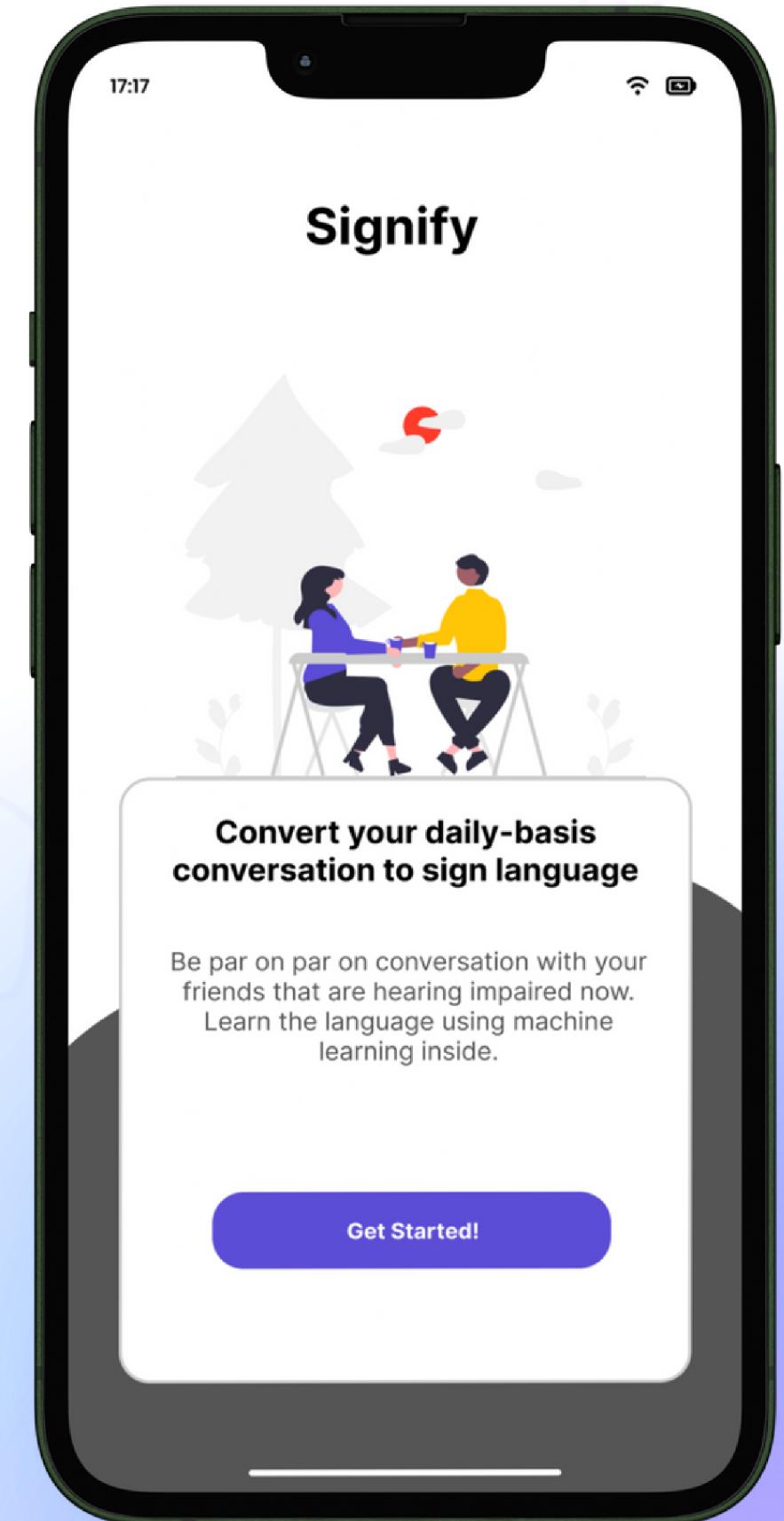


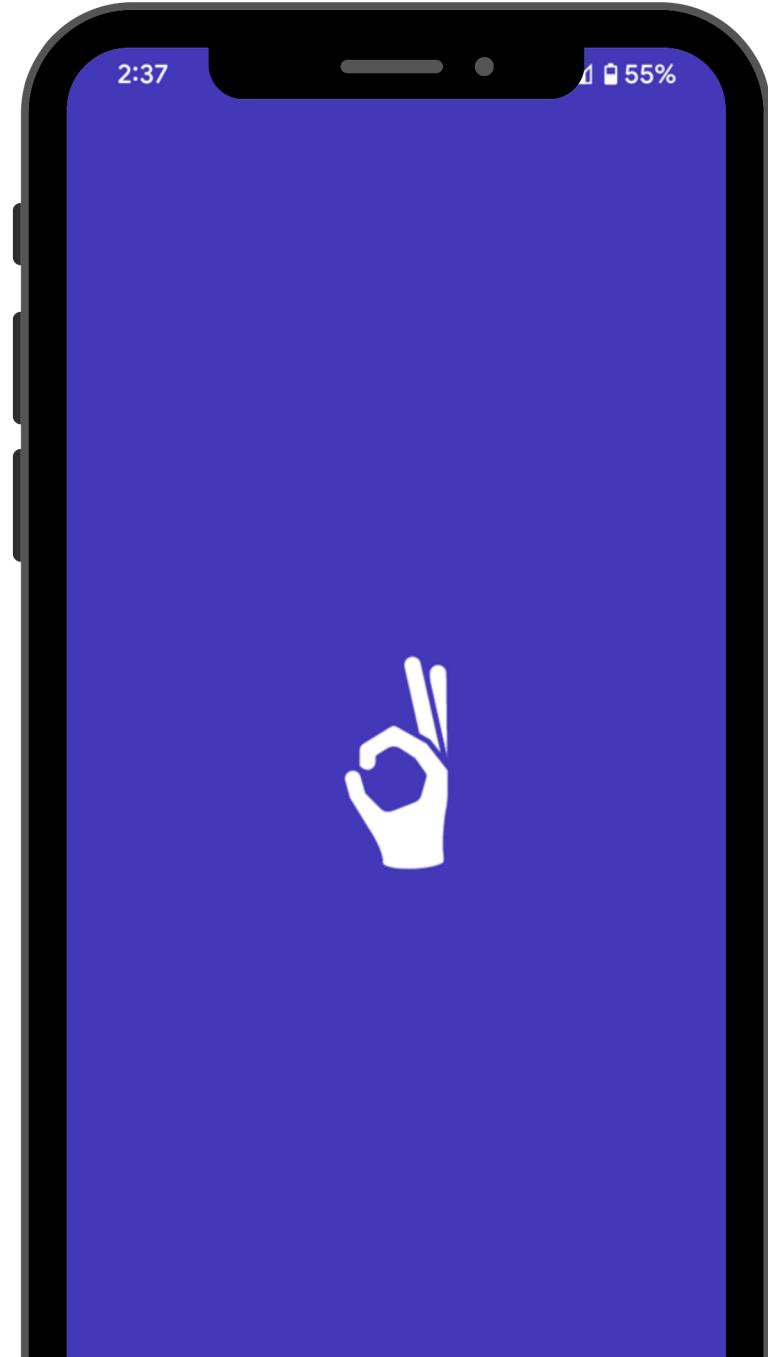


Signify

Project Management Challenge

Team ID: C241-PS094





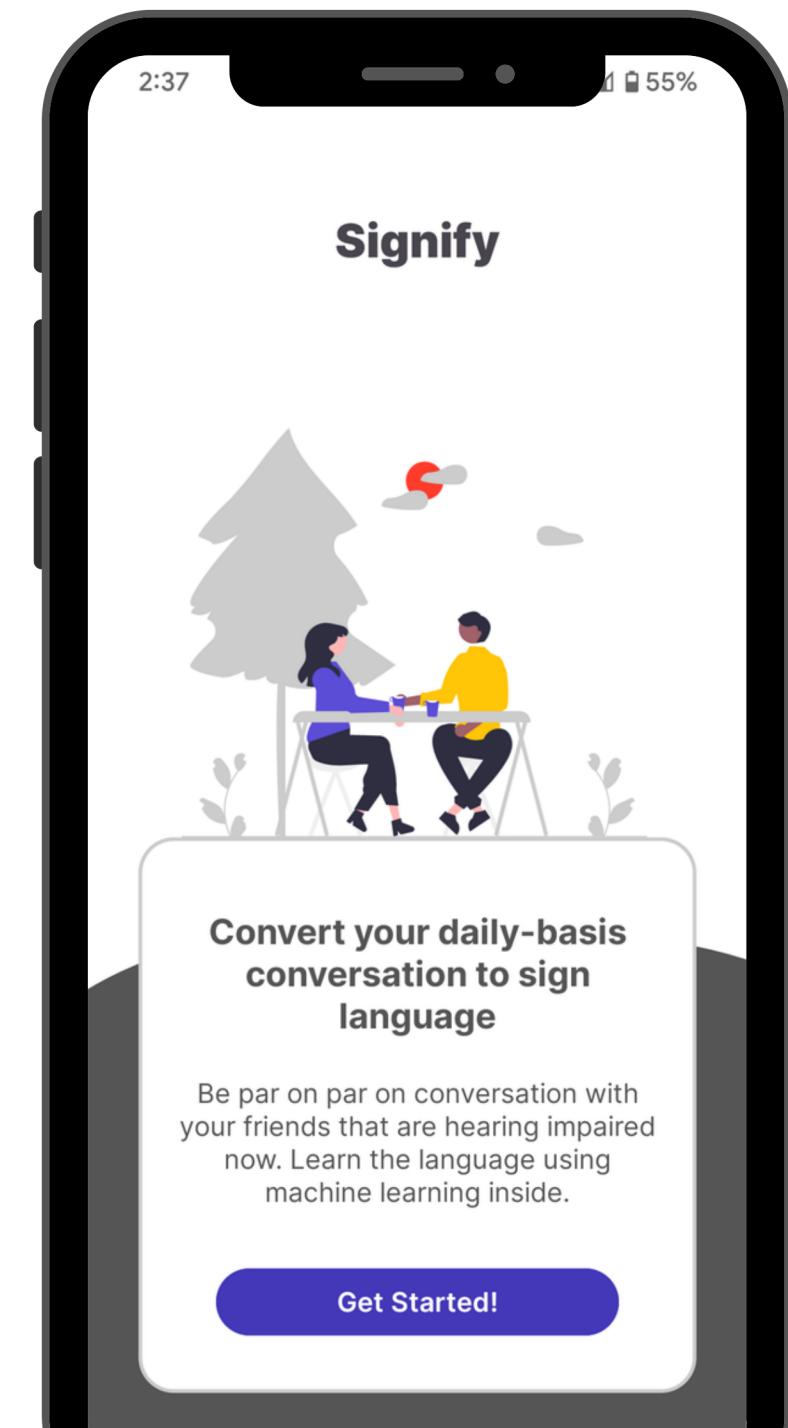
Problem

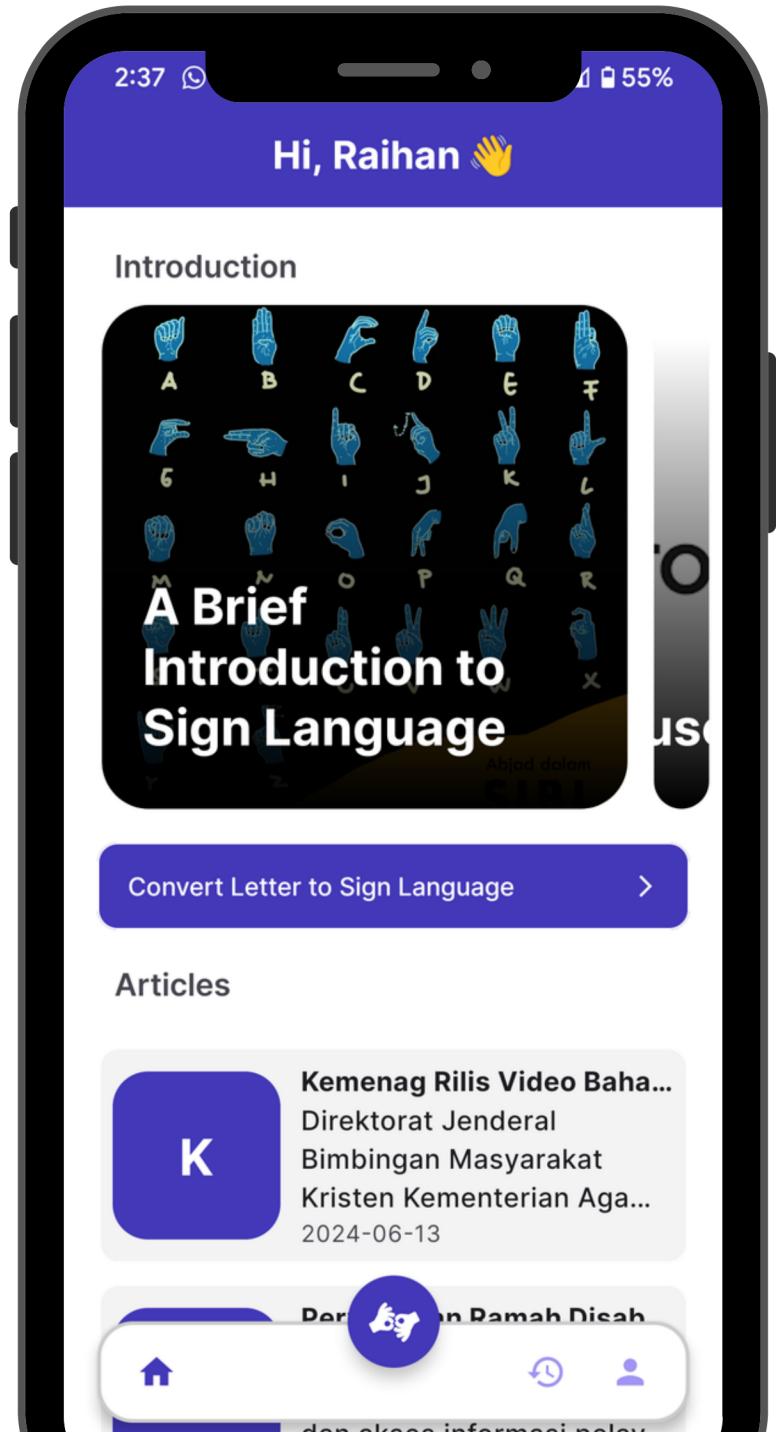
In Indonesia, over **2 million deaf** individuals **struggle** daily with communication barriers. Most people don't understand sign language, leaving deaf individuals isolated in educational, professional, and social settings. This gap not only **affects their quality of life** but also **limits their opportunities** for growth and participation in society.



Our Solution

By creating an accessible, real-time **sign language translation** mobile app, we could empower deaf individuals to communicate effortlessly with anyone, anywhere. It's time we **break down** these communication barriers and create a more inclusive society for all.





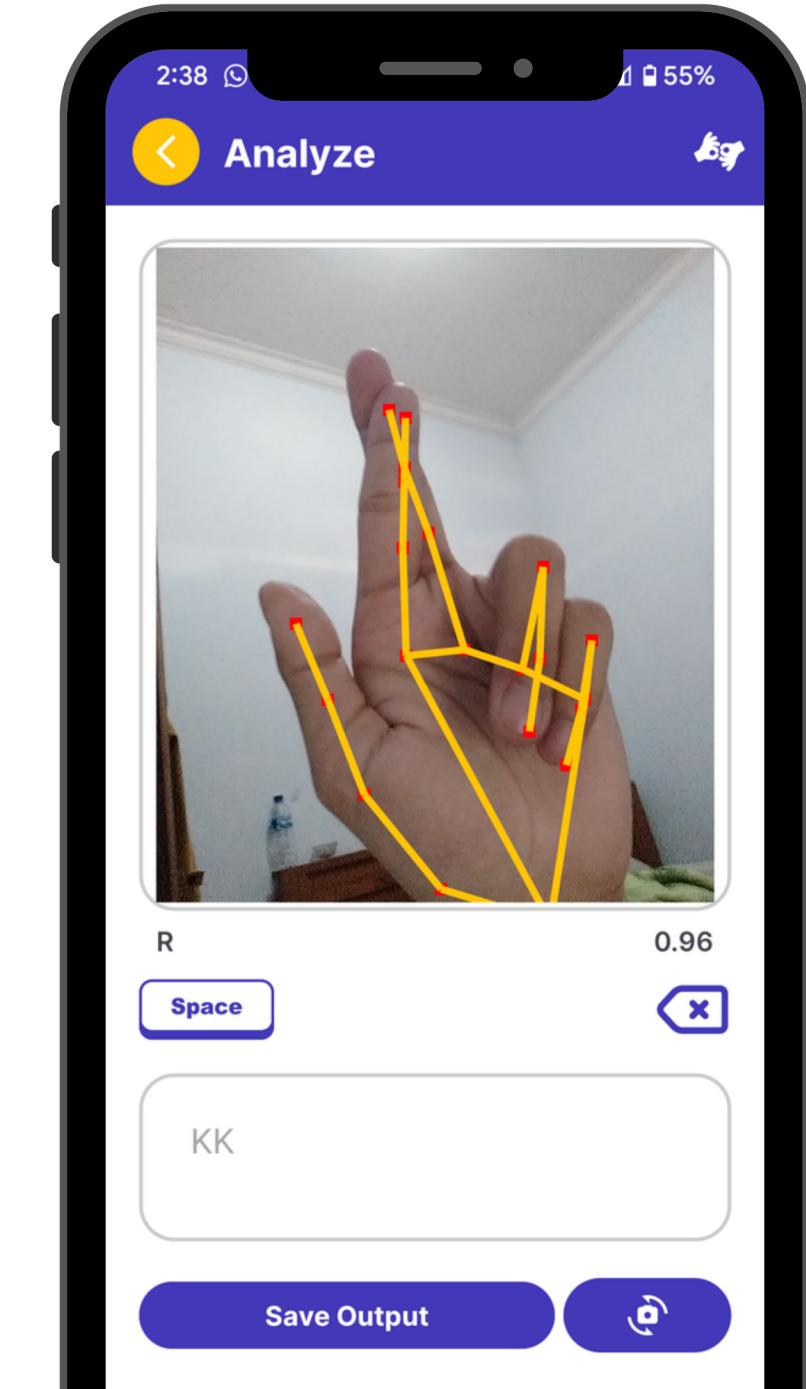
Project Goals

1. Develop a **real-time sign language recognition** app to bridge communication gap.
2. Provide an accessible tool for learning and using sign language to **enhance accessibility**.
3. Facilitate real-time translation of sign language to text and vice versa.



Project Scope

1. Translate sign language gestures to text in **real-time**.
2. Convert text input into **SIBI** gestures.
3. Ensure **easy navigation** and **usability** for all users.



Achieving Goals

Tools and Resources
<ul style="list-style-type: none">• Dataset• Machine Learning Tools: Google Colab, TensorFlow, MediaPipe, and Python Libraries.• Mobile Development Tools: Figma, Android Studio, Retrofit, Moshi Converter, MediaPipe, and Other Libraries.• Cloud Computing Tools: Postman, VSCode, Node.js, Express, and Firestore



Development Timeline
<p>Week 1: Data Collection and Preparation, and Development Environment Setup.</p>
<p>Week 2: Model Training and Implementation, UI and Camera Integration, and Backend API Implementation.</p>
<p>Week 3: Integration Testing and MediaPipe Implementation, Feature Development, and Testing and Debugging.</p>
<p>Week 4: Model Fine-Tuning, Performance Optimization, and Deployment and Monitoring.</p>



Our Team Members



Salman A



Raihan Achmad



Yohana N



Melatie Raghyl

Mobile Development

Mobile Development

Machine Learning

Machine Learning



Bagas Mujaddid

Machine Learning



Syifa Nailla

Cloud Computing



Khofifah Handariyanti

Cloud Computing

Thank You

End - Bye Bye

