

Interfaculty Collaboration 2023 Senior Project Award 2023



SMART GLOVE

WHAT IS THE SMART GLOVE?

The smart glove is a device that will translate sign languages to voice, made for those with speech impairments.



PROJECT OBJECTIVES

- To facilitate sign language communication for individuals with speech impairments
- To raise public awareness about individuals with speech impairments and sign language





PROJECT WORKFLOW

Research & Brainstorm

• Understanding sign language communication

 Starting the Collaboration between the smart gloves team and the App team





UX/UI Design in Figma

• Find a suitable and user-friendly color for the theme for the application

 Present the layouts of each page of the application VIEW THE DESIGN



03

Redesigning the Glove

 Designing the glove to fit the new functions that have been created from the application idea





Developing the app

Frontend

Flutter (Dart Framework)

Backend

Joint value comparison

Text-to-speech API

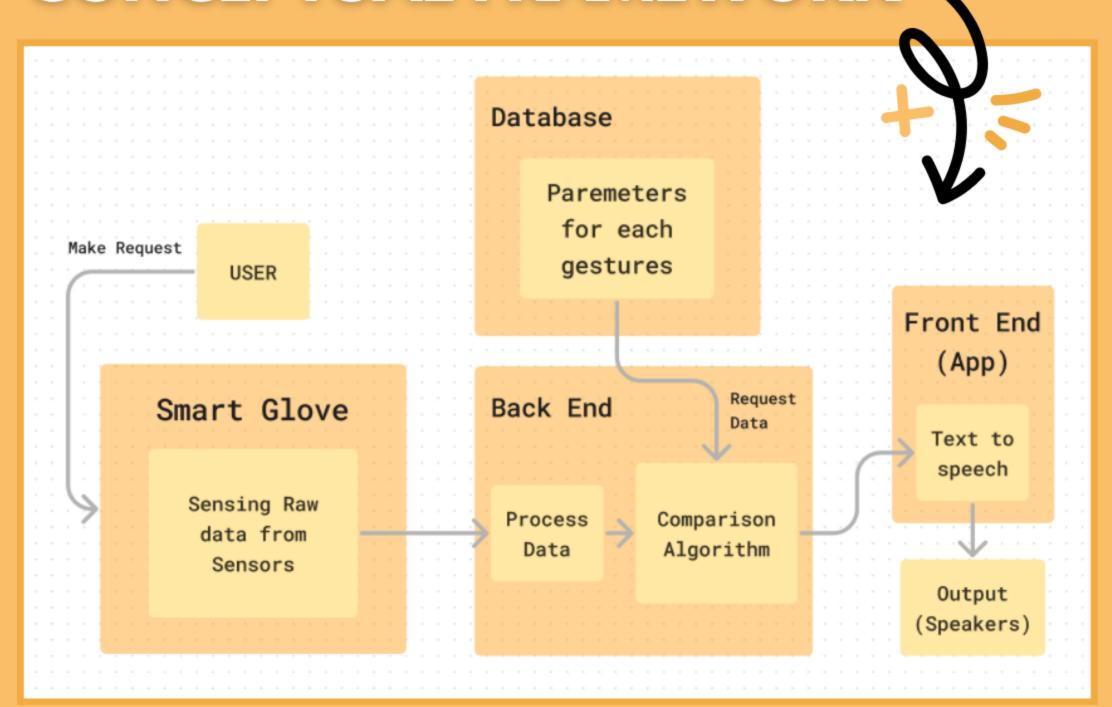
05

Integration

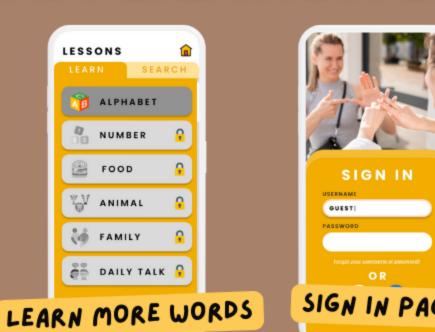
Connect the application to the Smart Glove

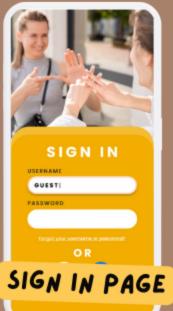


CONCEPTUAL FRAMEWORK



APPLICATION SNAPSHOTS









TEAM MEMBERS

Engineering Faculty Mr.Pawin Sommoung

Information Technology and Digital Innovation Faculty Mr.Krichpetch Sintanakul Ms.Supitcha Lengvattanakit Ms. Nichapat Vaitayatanapan

ADVISORS

Engineering Faculty Dr. Danucha Prasertsom Dr. Yuenyong Nilsiam

Information Technology and Digital Innovation Faculty Asst.Prof.Dr.Siranee Nuchitprasitchai

