



SANTA CLARA UNIVERSITY
SCHOOL OF ENGINEERING

Ideating and Designing Mobile Apps for Immigrants from Shared Experience

Silvia Figueira
Computer Science and Engineering
Santa Clara University



Global Digital Transformation Clinic

Extensive experience in developing apps for social impact

Work in collaboration with low-resource organizations

Non-profit organizations

Social enterprises



Digital Transformation Wish List

Co-Ideation
Co-Design



<https://roseacademies.org>



Summer Program

Students from a local community college

10-week program

Develop mobile apps to solve a specific problem

Summer 2023

Theme: Immigrants



Shared Experience

Students were immigrants or children of immigrants

Their shared experience came naturally

Shared experience + co-ideation + and co-design

Result: unique and appropriate apps



Legal Ease

12:43 Back ?

Social Security Form General Terms

Applying for a Social Security Card is free!

LegalEase

Enter over the given information written in red

this name will be on your social security card

1 NAME TO BE SHOWN ON CARD: First name, Full middle name, Last name

2 SOCIAL SECURITY NUMBER: Social Security number

3 PLACE OF BIRTH: State or foreign country, Office use only

4 DATE OF BIRTH: MM/DD/YYYY

5 CITIZENSHIP: U.S. Citizen, Legal Alien, etc.

6 ETHNICITY: Ask You Hispanic or Latino?

7 RACE: Select One or More

Spanish Next

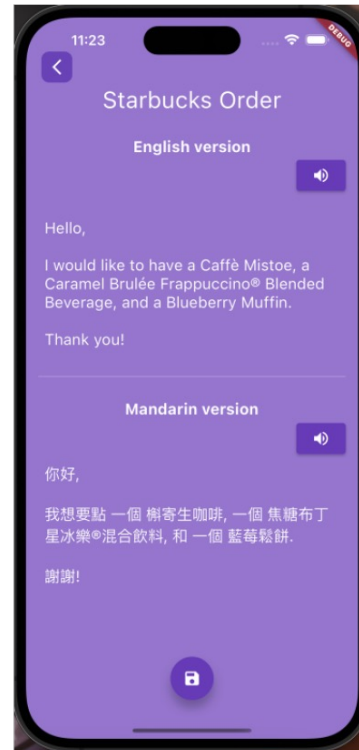
Help with forms

Guide with explanations and examples

Instructions on the form



Order Simulator



**Helps people order at cafes
and fast-food restaurants**

Generates order

Shows translation



English Advantage



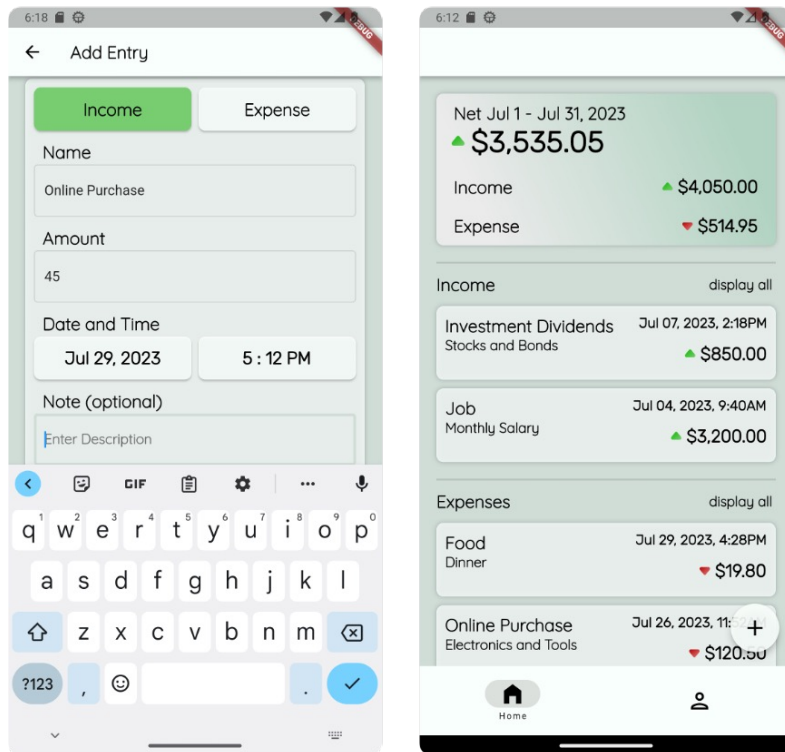
Helps young people learn casual language

Slang dictionary

Help with common grammar mistakes



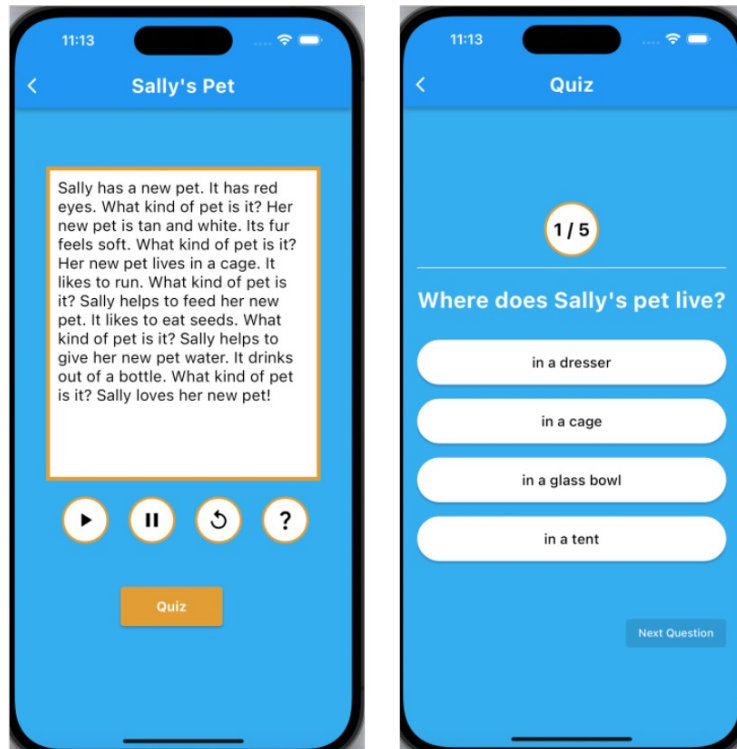
Easy Tracker



Helps keep track of finances
Income and expenses
Simple interface



Tiger Tutor



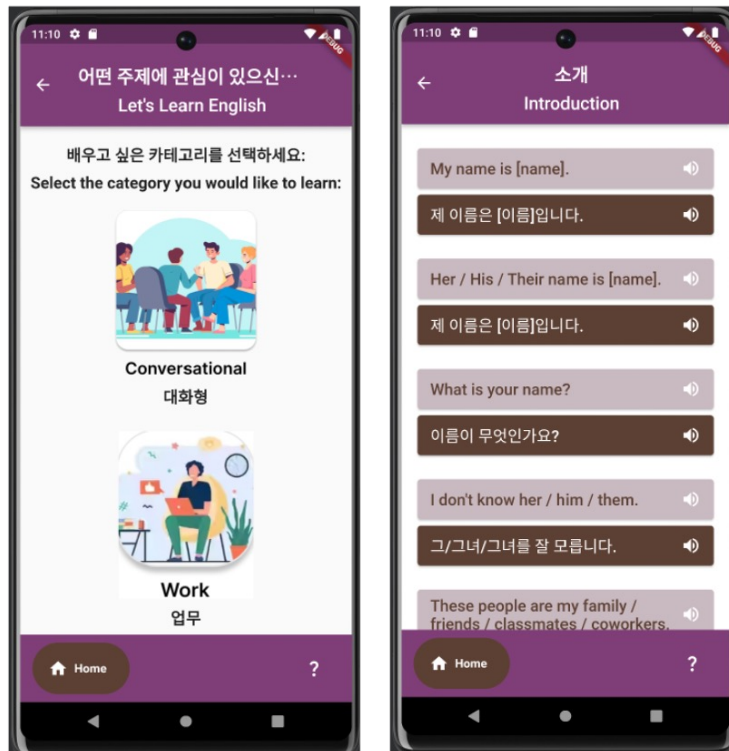
Stories for children

Reading and comprehension

Audio also available



ESLearn



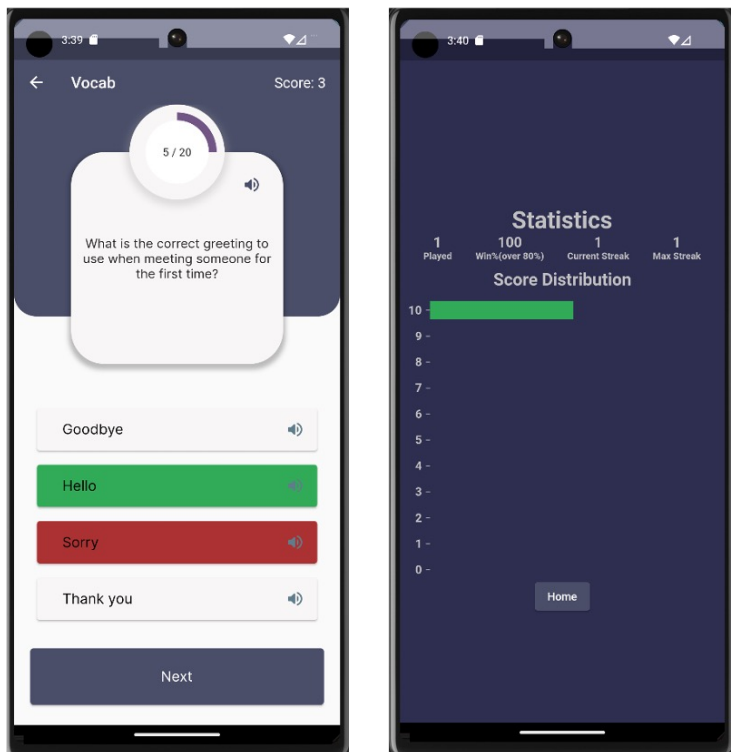
Conversational Language

Learn common expressions
need in everyday interactions

Works in nine languages



Fluent Focus



Exercises for adults

Learn at their own pace

Keeps track of progress



Shared Experience

Impact on the apps developed

Not always available

Future work

Develop for populations that do not rely on organizations



SANTA CLARA UNIVERSITY
SCHOOL OF ENGINEERING

Questions?

sfigueira@scu.edu