Lost in Translation

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DESINST 240
Final Project

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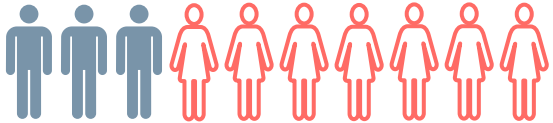
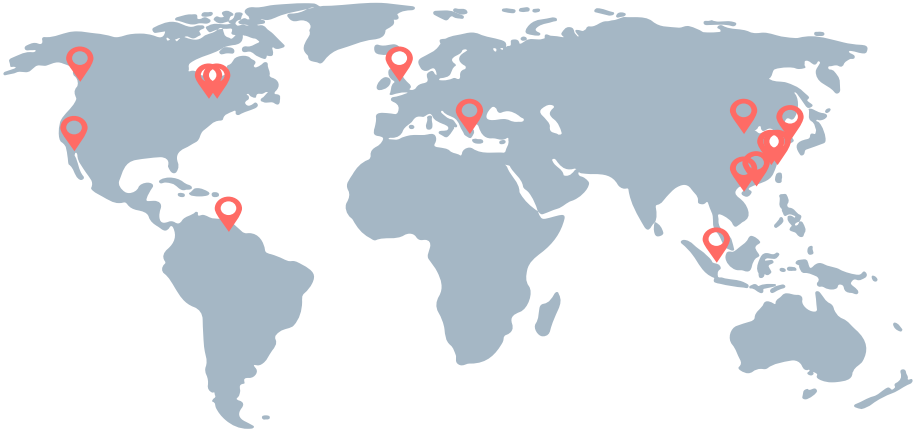
Our Users

Age

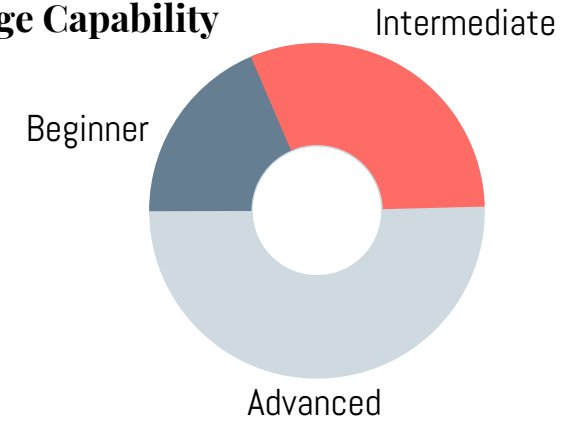
Gender



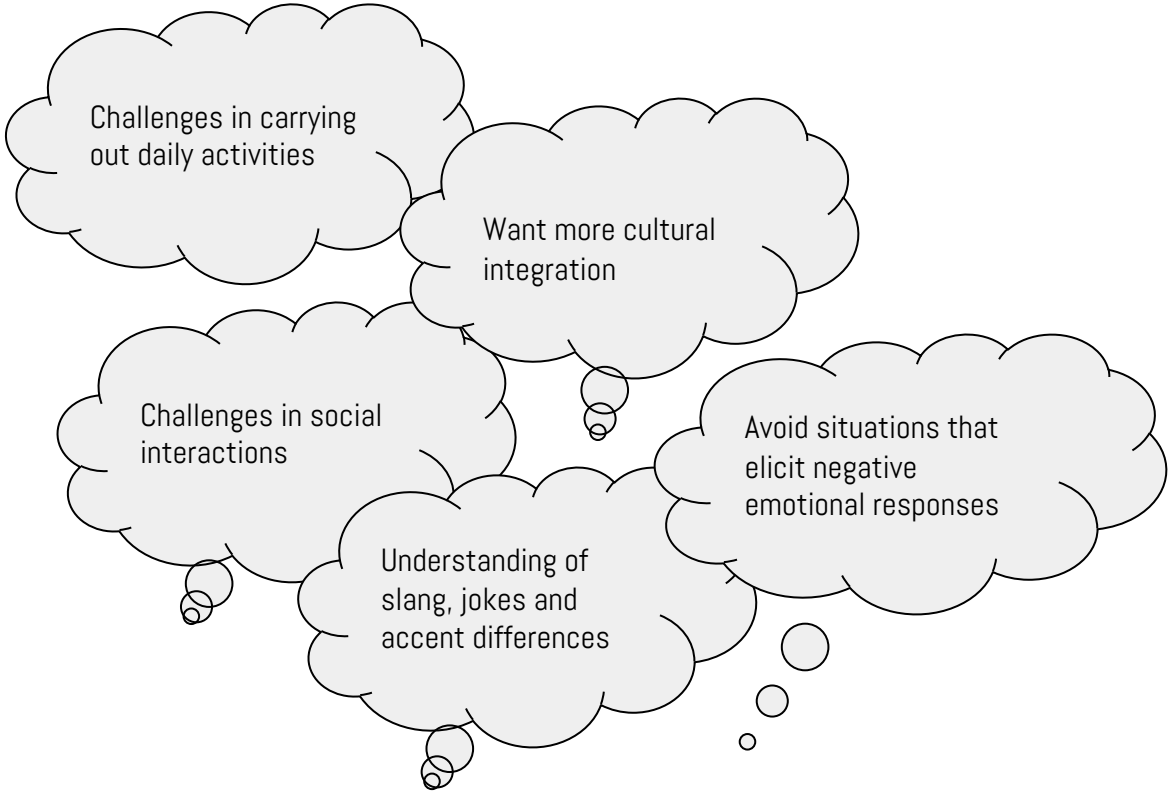
Ethnic Background



Language Capability



Themes & Tensions



- Importance of conversing with native speakers vs lack of confidence and fear of embarrassment
- Cultural background and societal values of home country vs current country
- Need for social and cultural integration vs feelings of alienation and isolation

User Journey Map

Basic communication of needs and wants

- Daily Challenges

Ability to communicate with cultural appropriateness

- Cultural Issues
- Social Interactions
- Positive Emotional Responses

Problem Statements

How Might We...

help our users deal with real-time language issues and navigate through daily tasks?

help our users to be more culturally appropriate in their language use in different situations (e.g. in a casual vs professional setting) ?

Our Solution

Customized functions for users with different backgrounds, language capabilities & needs for language

This is the language the app will use in the user interface

We are always here to help you with any language challenges!

We offer:
1) Real-time translation which allows you to switch between text, audio and visual input modes.
2) Accurate translation for a diversity of languages

Practice is the best way to improve your language skills!

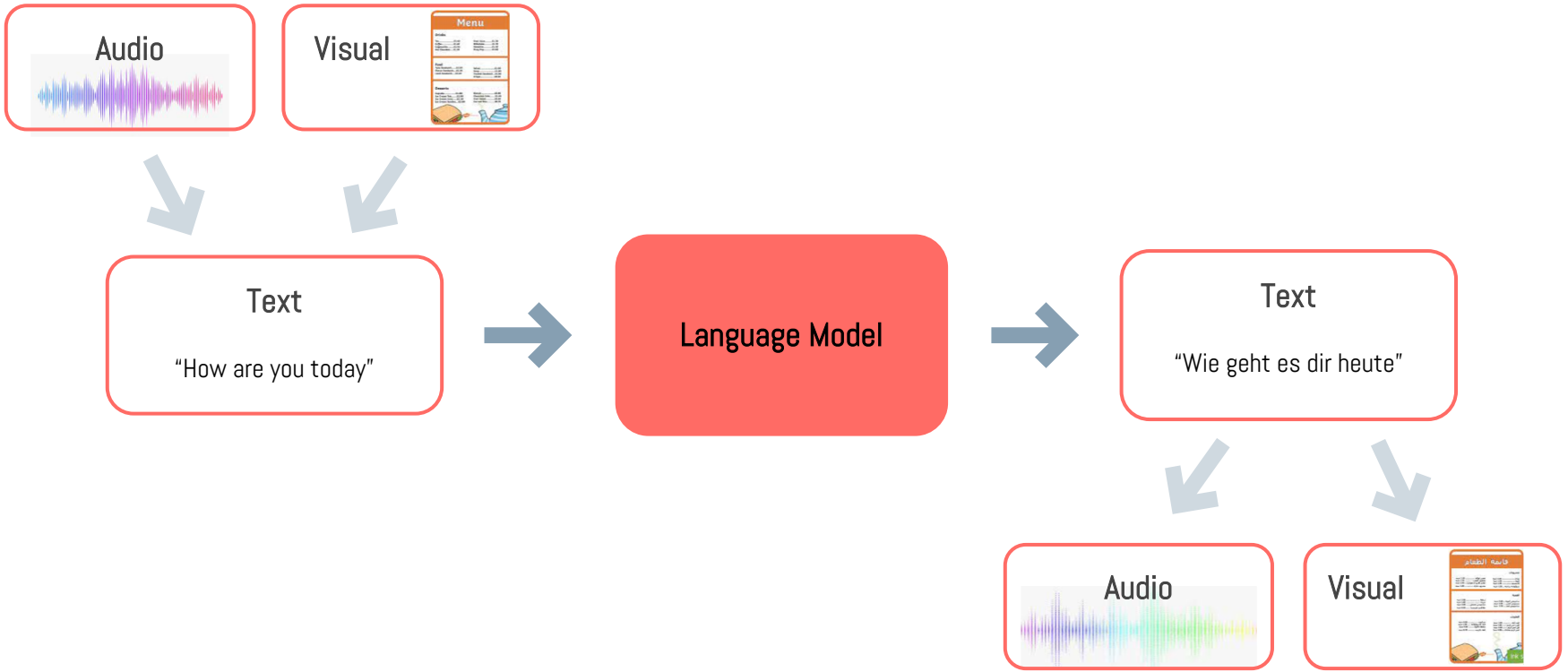
We offer:
1) Personalized chatbots that you can talk to on-demand
2) Buddy matching for you to find a real person to talk to.

Start practicing today!

Scenario 1: NLP for real-time translation

Scenario 2: Long-term language improvement (NLP + ML Matching)

Scenario 1: Real-Time Translation



Scenario 1: Real-Time Translation

Interface 1-1

Real-Time Translation

Would you prefer a human or machine translator?

Machine | Human

Choose your input mode:

Input Mode
Type
Record Audio
Take a Photo

Choose your input language:

Input Language
English
Mandarin Chinese

Choose your output language:

Output Language
Spanish
French

We can connect you to either a human translator or a translation chatbot.

Human translators are not legally bound to not disclose personal information, so personally sensitive data should be shared at your own discrepancy.

There are three ways you can input data into the app:

1) Type out or digitally input text
2) Use your device's microphone to record an audio clip
3) Use your device's camera to scan printed or written text

Interface 1-2

Real-Time Translation

Your input

Output

Interface 1-3

Real-Time Translation

Matching you to a translator now...

Interface 1-4

Real-Time Translation

Bob is here to help!

Call | Video Call | Text

Interface 1-5

Real-Time Translation

Scenario 2:
Long-term Language Improvement

User Input
(text or audio)

↓

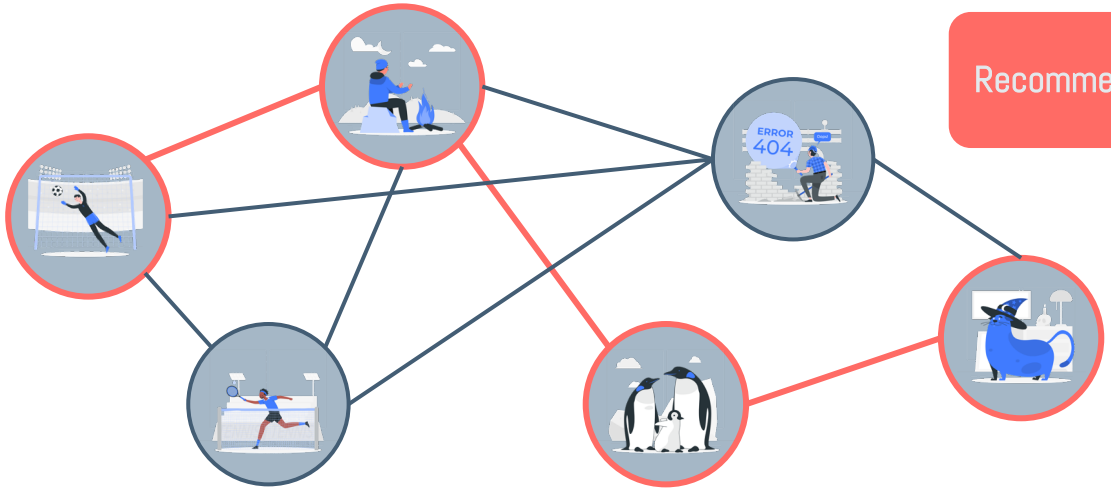
Classifier

↓

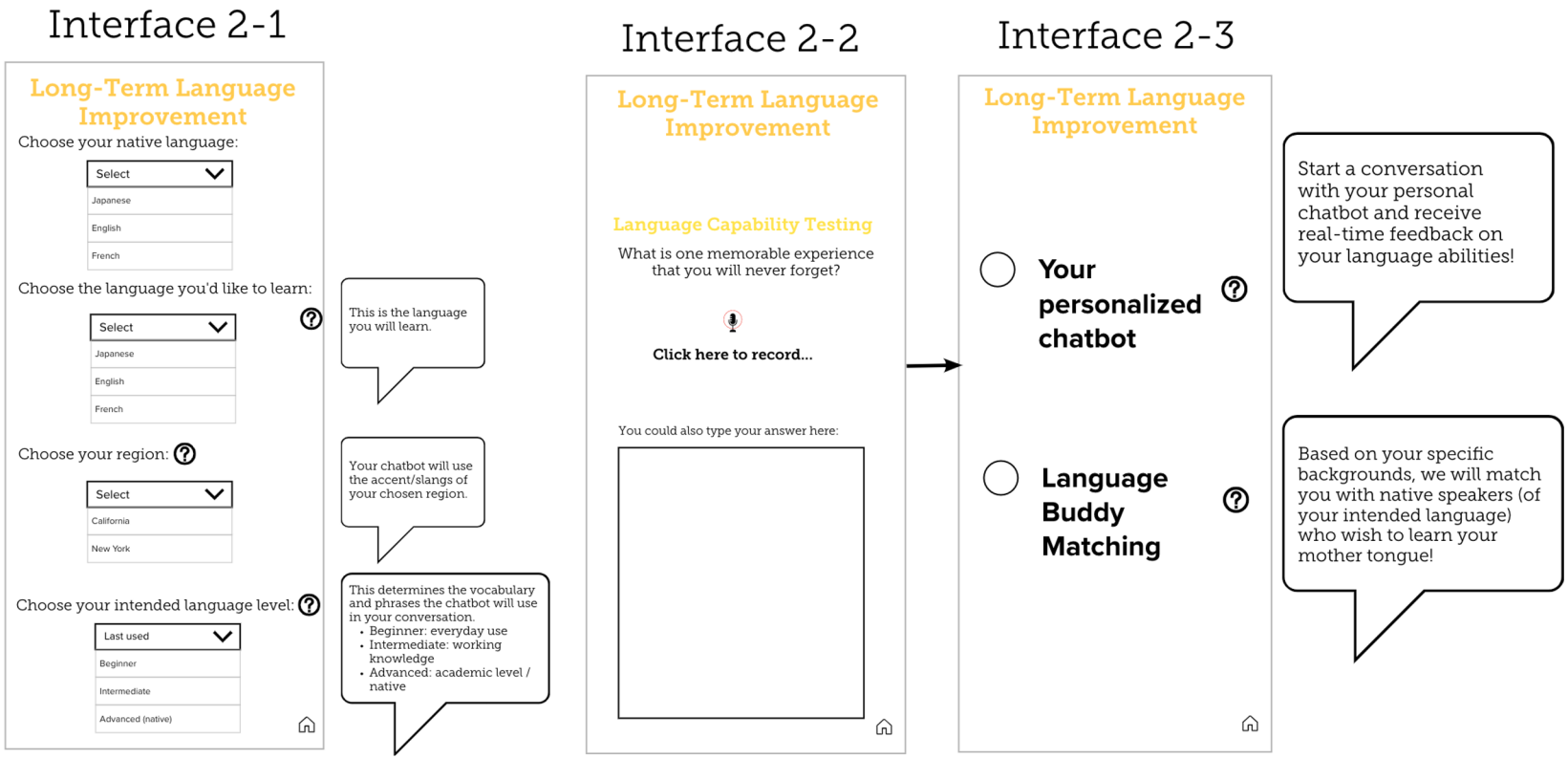
Language Level

Audio → Text → **Language Model** → Text → Audio

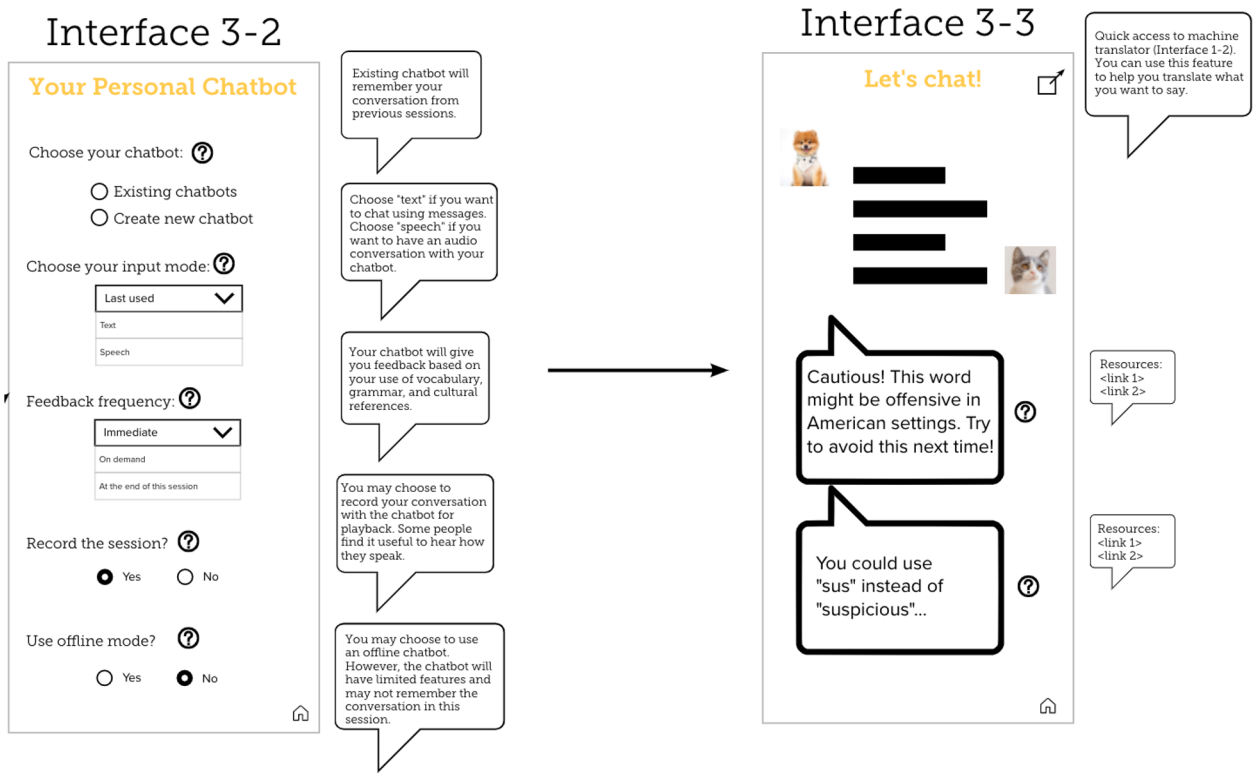
Recommender



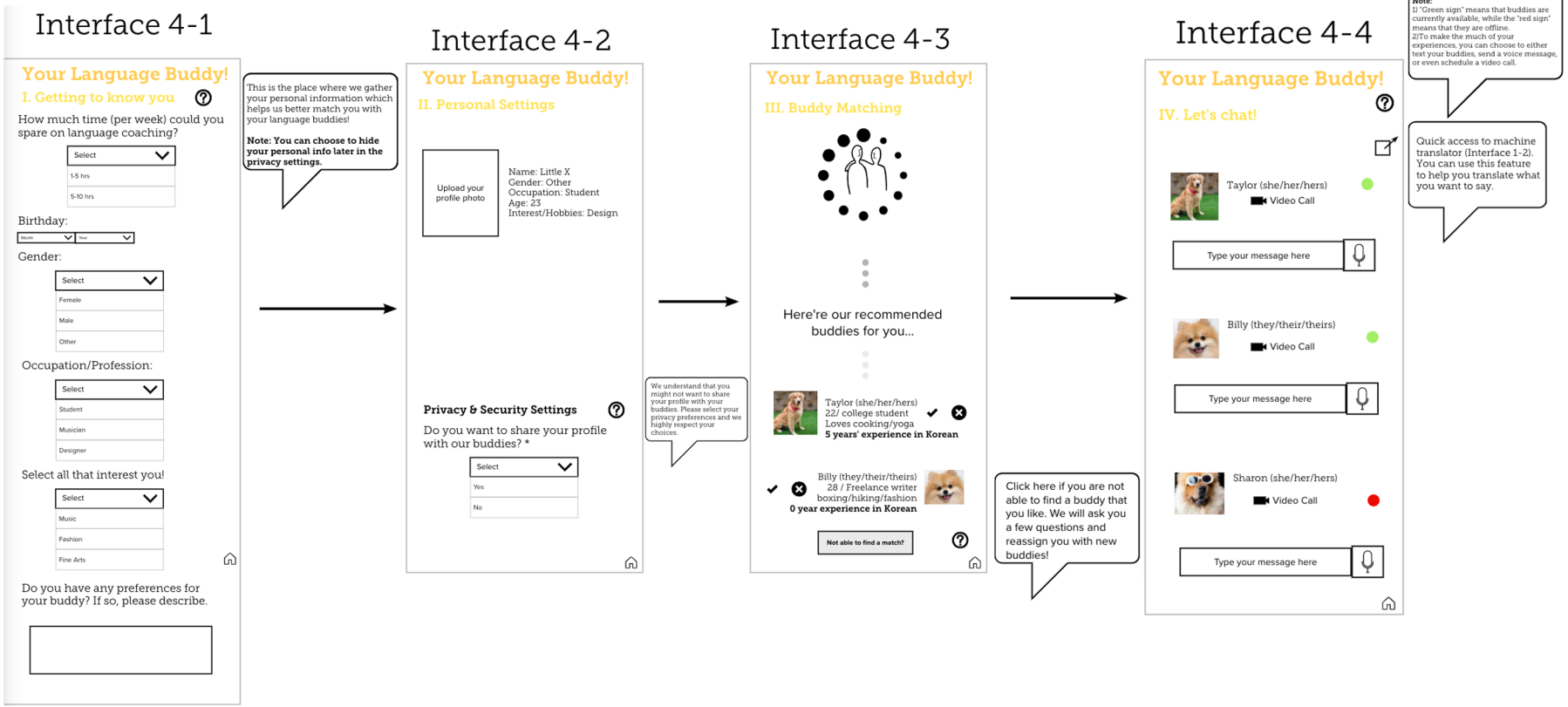
Scenario 2:
Long-term Language Improvement



If you choose to communicate with your personal chatbot...



If you choose to pair with a language buddy...



THANK YOU!

Do you have any questions?

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