

# Low-Fi Prototype and Testing

## Mandarin Trainer!

Team 7

Shiny Yu and Eric Bennett



# Team Members



Shiny



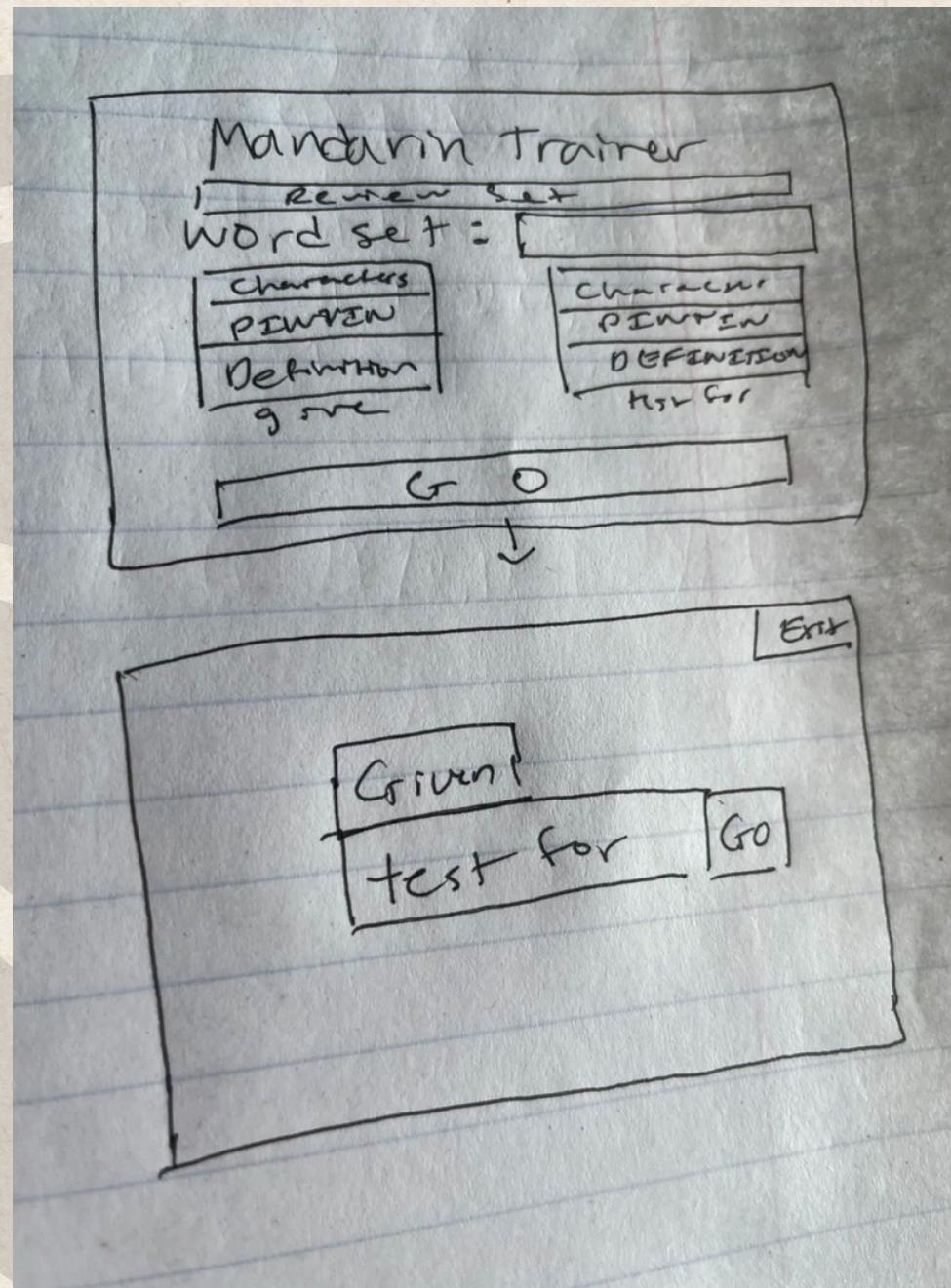
Eric

# Value Proposition and Solution

- Vocab learning platform that fits the complexity of Chinese language learning
- While a variety of vocab tools exist on the market today, nothing quite integrates the complexity of learning Chinese while keeping both customizability ease of use. We propose a tool which fills this void, providing beginner to advanced Chinese learners with a tool to fit the way they learn perfectly.

# Concept Sketches

# Sketches



Mandarin Trainer		
Set 1	Pinyin	test
--	--	-
--	-	-
--	-	-
-	-	-
-	-	-
-	-	-

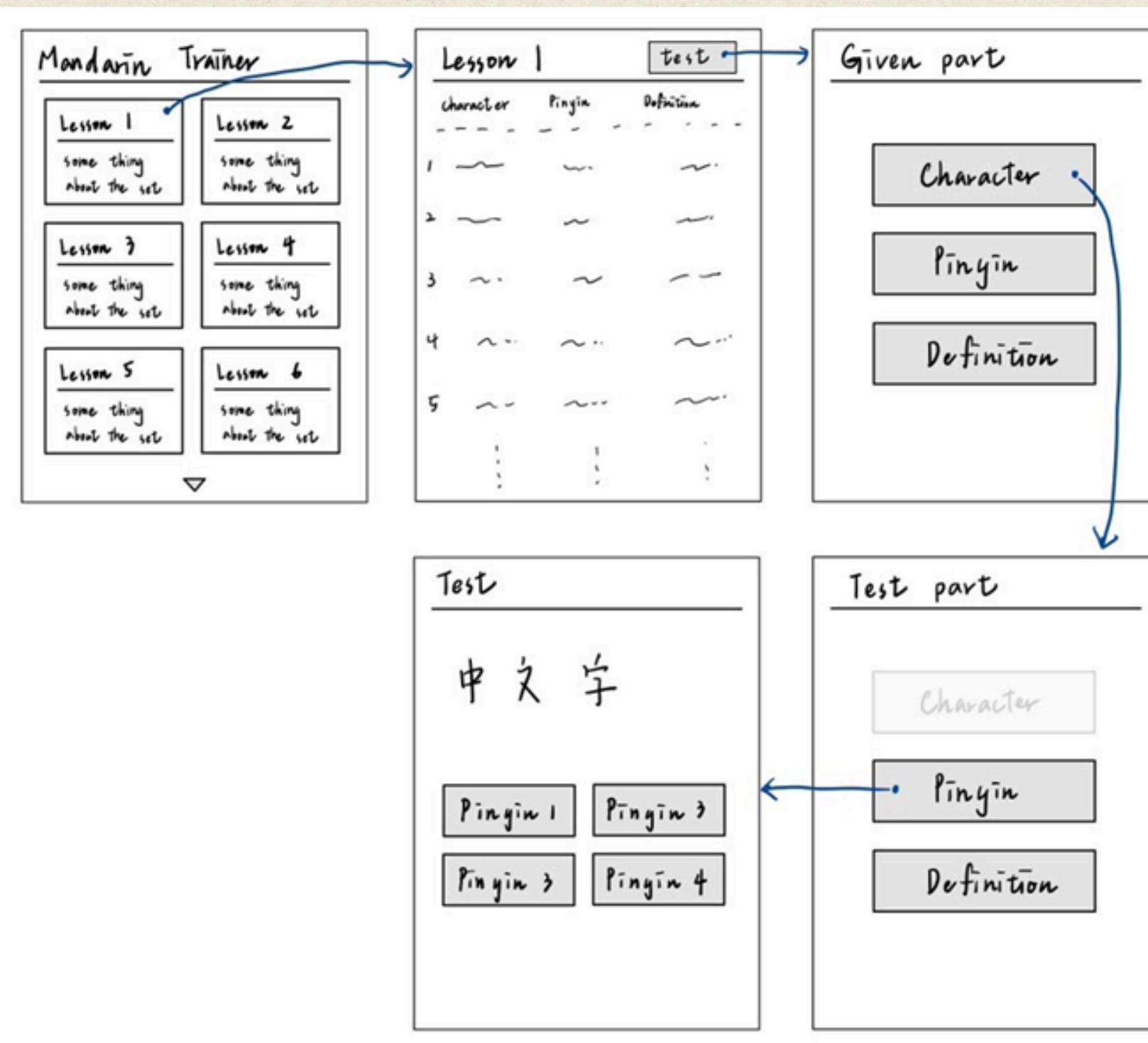
Set 1		
character	Pinyin	Definition
--	--	-
--	-	-
--	-	-
-	-	-
-	-	-
-	-	-

A screenshot of the "Mandarin Trainer BETA" mobile application. At the top is a dropdown menu labeled "select a set" and a blue "Review Set" button. Below this are four buttons arranged in a 2x2 grid: "Given Pinyin", "Given Character", "Test for Pinyin", and "Test for Character". At the bottom is a green "GO!" button.



# Final 2 Designs (UI Sketches)

# Design #1



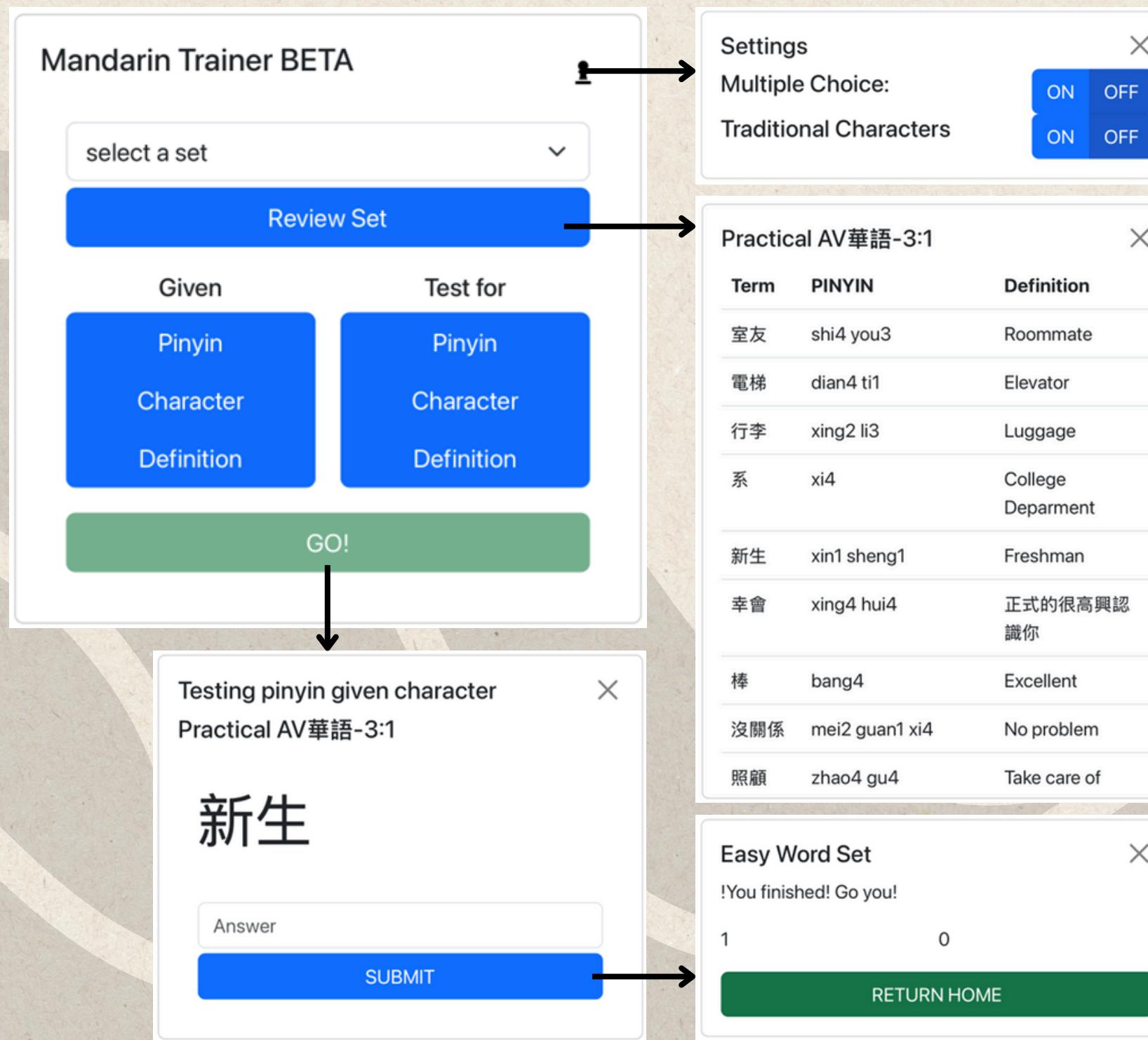
## Pros

- Multiple choice support
- Built in 'review' page

## Cons

- More pages
- More 'linear' behavior  
(users would have to use "back" button more)

# Design #2



## Pros

- Multiple choice support
- Built in learning algorithm

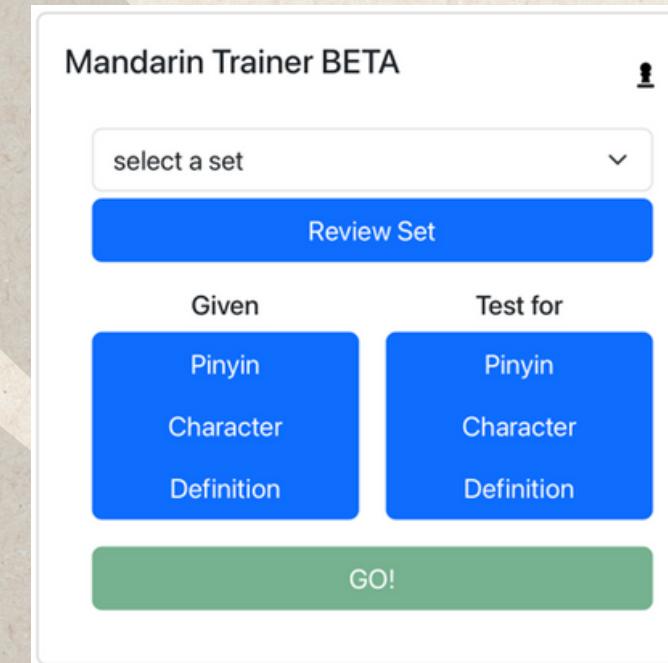
## Cons

- No searching
- Simplistic design
- No completion analysis
- No 'flashcard' mode

# Selection Rationale

## Design #2

- Maximizes functionality while minimizing complexity
- Other reason\*\*
- Have access to it already, allows for much more in depth testing



## Pros

- Multiple choice support
- Built in learning algorithm

## Cons

- No searching
- Simplistic design
- No completion analysis
- No 'flashcard' mode
- Hard to understand as a brand new user

# Task Flows

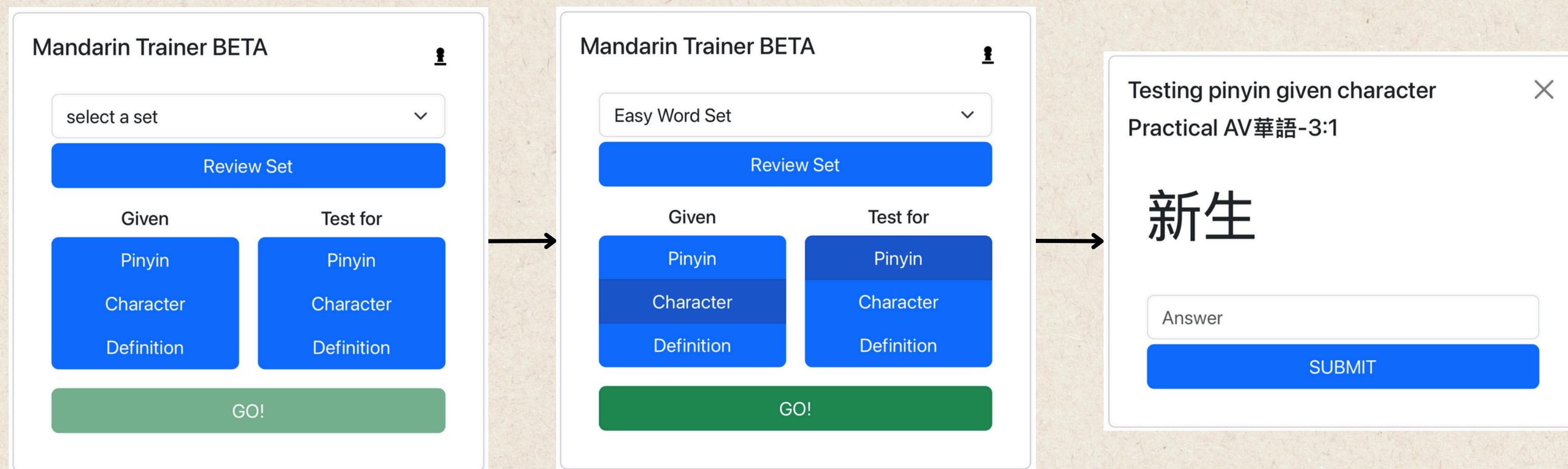
# Simple Task

Select a vocab set, review the words contained within it, and return to the home screen



# Moderate Task

Select a vocab set and a method of testing, and begin testing



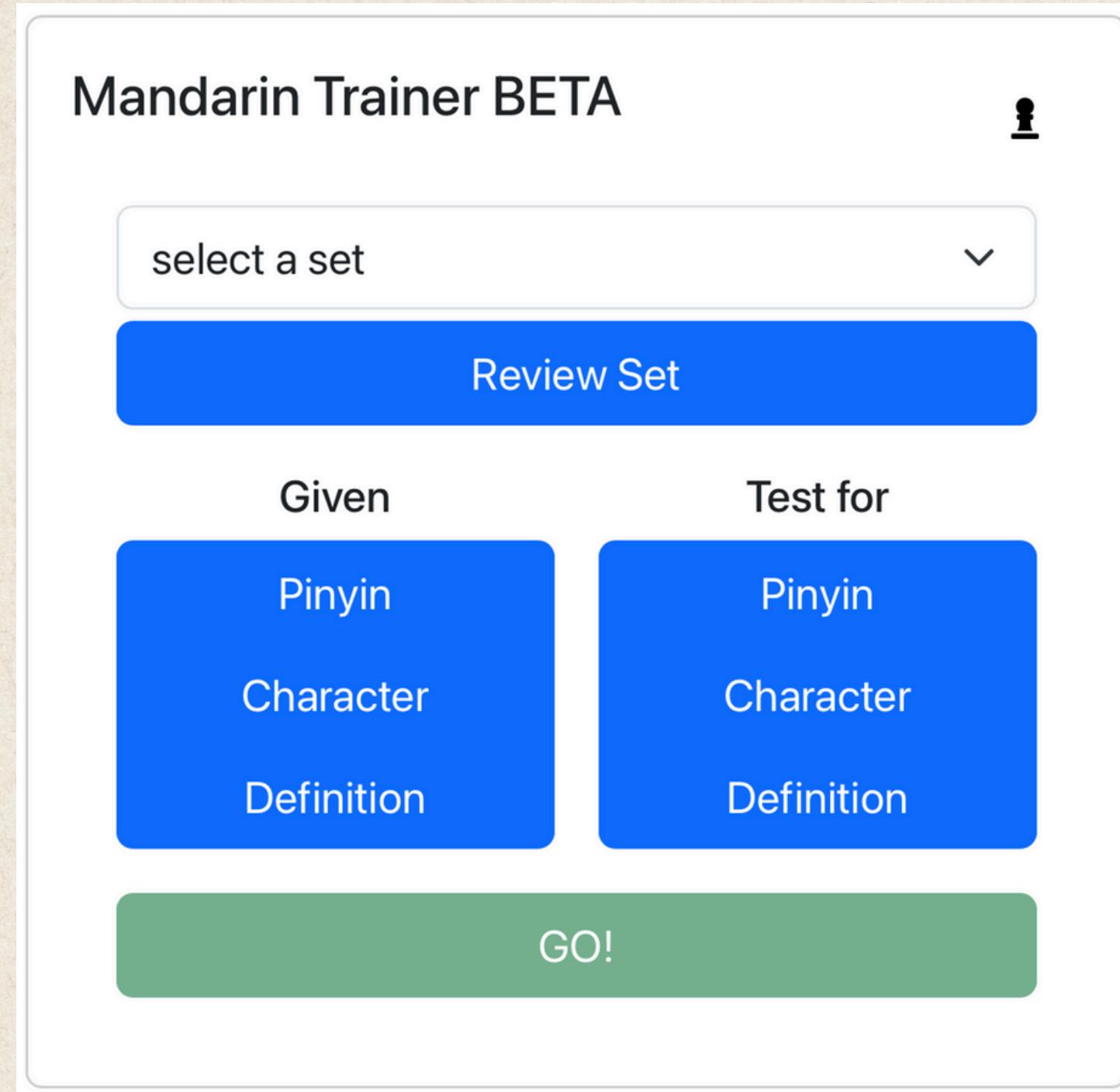
# Complex Task

Change the setting to multiple choice mode, choose the vocab set ExampleSet, review the vocab set, select a method of testing, and complete the testing until reaching completion.



# Prototype

# Prototype



# Testing

# Testing Methodology

For each of the three testees:

- Introduced the prototype website, as well as the purpose of it (without going in depth about any details of using it)
- 1 conducted in person, 2 conducted online with screen sharing
- Gave the instruction of each level of complexity, instructed the testee to complete the task while describing the thought process behind it

# Tester 1 (completely new to Language learning)

## Simple Task

- Understood the drop down very easily, but didn't understand how the current system would work with more vocab sets
- When reviewing was confused what "PINYIN" was
- Thought that "Term" should be labeled "Character(s)"

## Moderate Task

- Understood the "Given" and "Test For" system very easily without explanation

## Complex Task

- Understood how to get to settings, but noted he was clicking the button not because it was obviously settings, but because it was the only button that wasn't obvious
- Didn't realize anything about the built in learning algorithm (when getting anything wrong believed he "wouldn't have another opportunity to try")

# Tester 2 (experienced Chinese Language learner)

## Simple Task

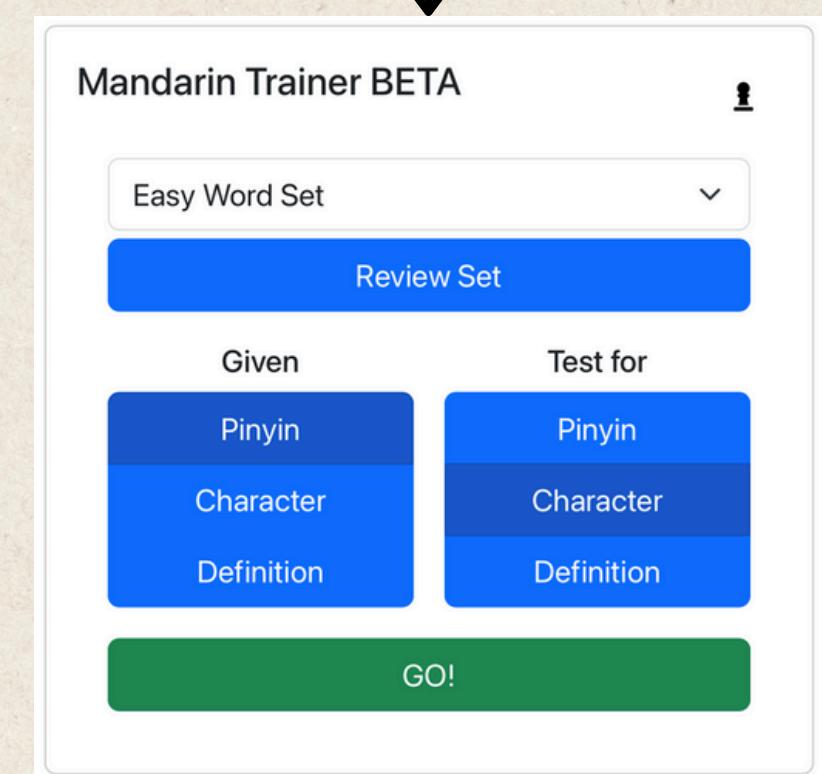
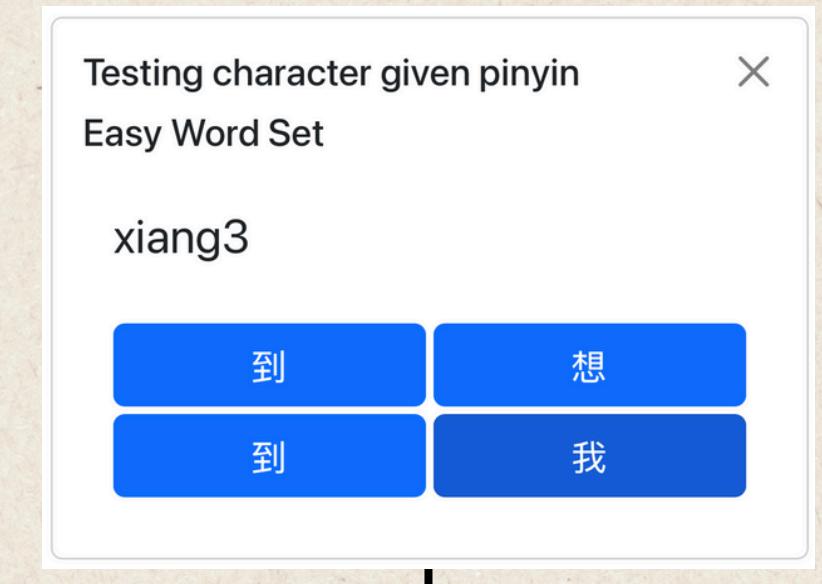
- When using a vocab set with many terms, easily understood how to scroll down, but suggested having a description of how many words are in the set at the top

## Moderate Task

- Wished couldn't select the same type for Given/Test for

## Complex Task

- Clicked the 'x' before completing and was forced to redo much of the learning
- Noticed that two of the potential MC answers were the same (pictured ->)



# Tester 3 (Fluent in Chinese, first language English)

## Simple Task

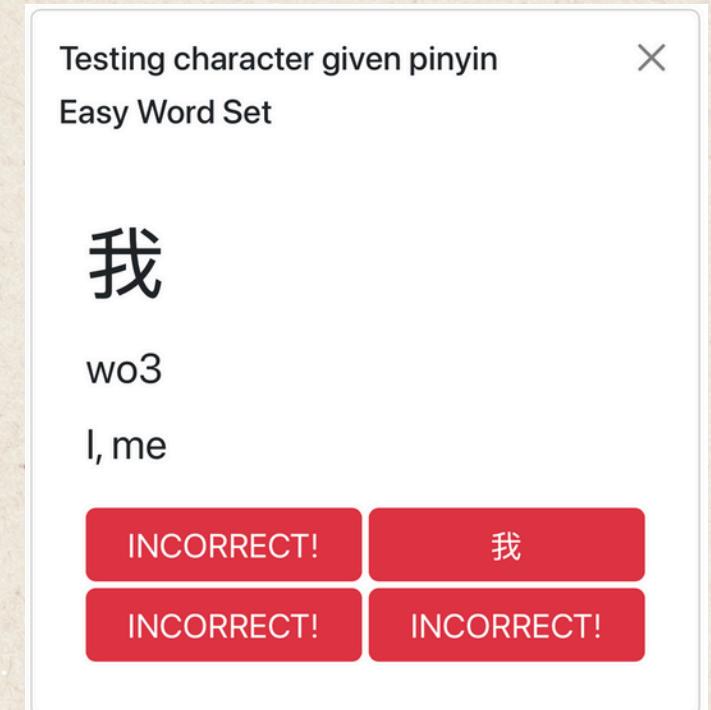
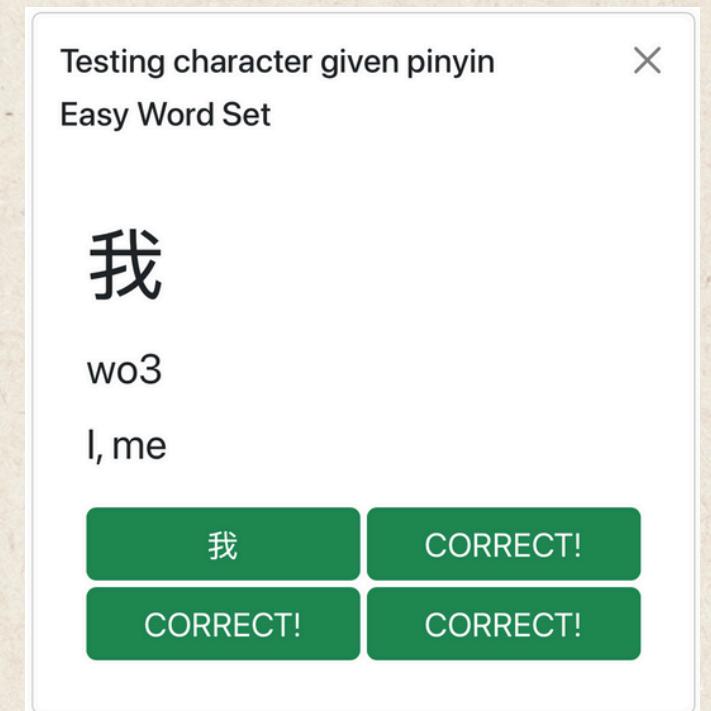
- Similar comments to first two testers (adding more, scrolling)

## Moderate Task

- Was confused what the “Go!” button meant, and when completing the learning wasn’t sure the structure of the learning, or the progress throughout it

## Complex Task

- Criticized the replacement of incorrect words with “CORRECT” or “INCORRECT”



# Suggested UI Changes

Use gray to show wrong answers without removing them (and for home)

In “Review” page show the number of characters in the set

Add a progress bar to learning environment

Change the settings icon to a gear

- (Remove Traditional Characters from settings)

Term	PINYIN	Definition
我	wo3	I, me
很	hen3	Very
你	ni3	You
想	xiang3	Think/miss
到	dao4	To
節日	jie2 ri4	Festival
按照	an4 zhao4	According to
算法	suan4 fa3	Calculation

Testing character given pinyin

Easy Word Set

15/20

很

hen3

Very

CORRECT!      很      CORRECT!

CORRECT!      CORRECT!

Mandarin Trainer BETA

Easy Word Set

Review Set

Given

Pinyin

Character

Definition

Test for

Pinyin

Character

Definition

GO!

# Summary

# Summary

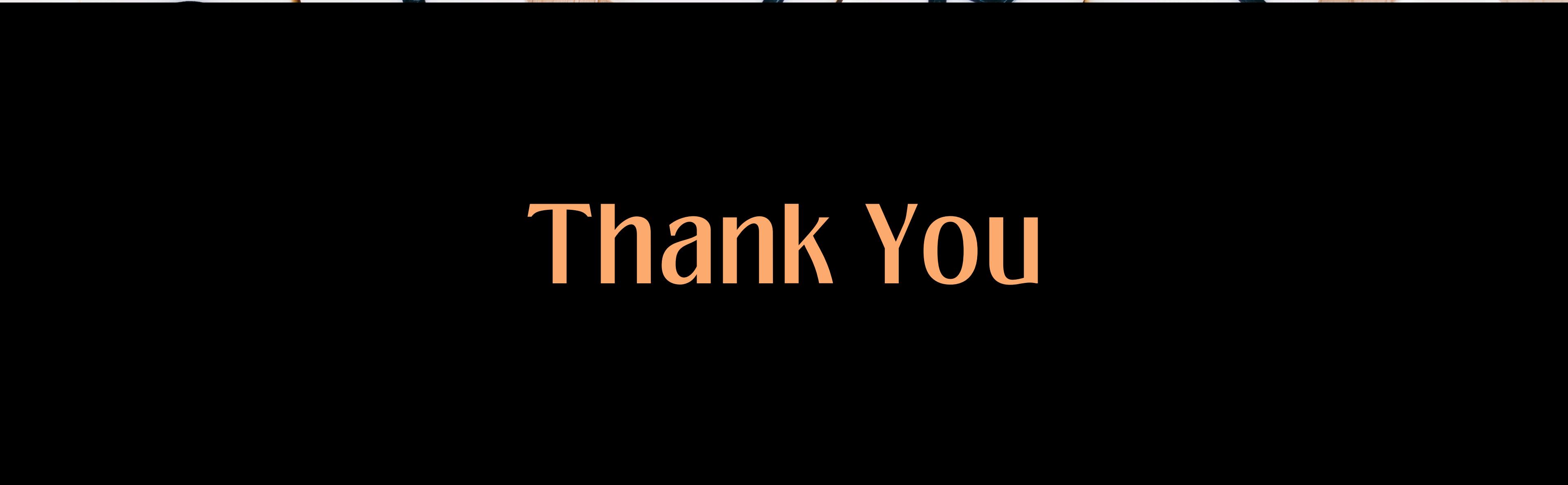
The major parts of the prototype to improve on are:

- Allowing for user profiles and creation of sets
- Improving the “learning algorithm” and adding more ways to interact with the vocab set

Make the system more new-user friendly

- Add in some explanatory “first time” pop-ups that can be removed.

Extra note: Upon more literature review, could be interesting to integrate/allow the upload of Anki files



Thank You