



Studio: VR/AR x Education

Team 2

Language Immersion In VR



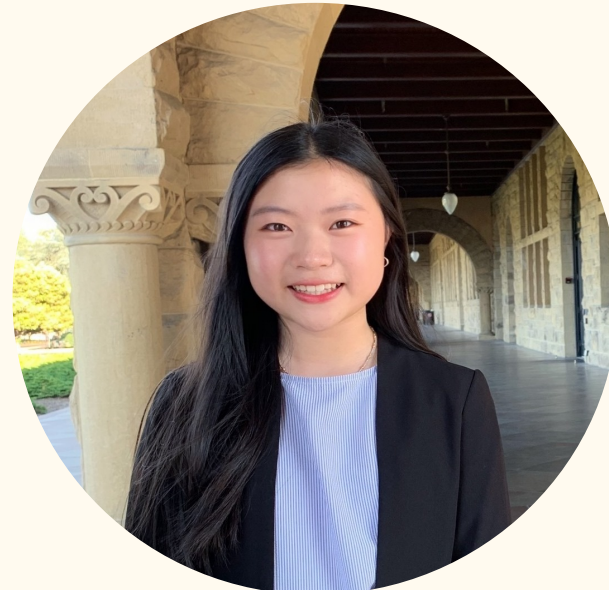


Langu
(they/them)

Team Members



Amanda



Anna



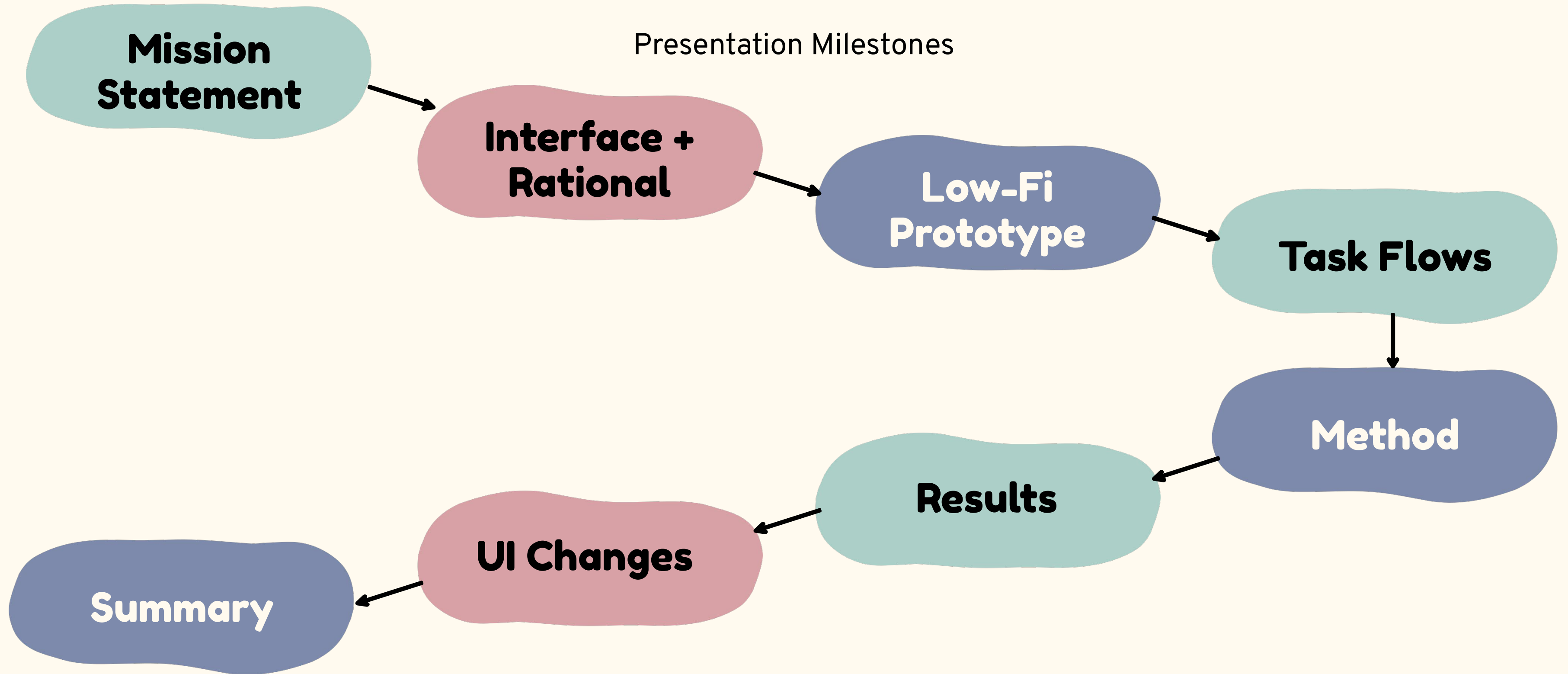
Selaine



Wilmer

Overview

Presentation Milestones



Team Mission Statement/Value Proposition

**Create an encouraging and immersive language-learning
environment for all.**

Interface + Rationale

Figma



Honorable Mentions

Zoom, Notability,
Apple Pencil



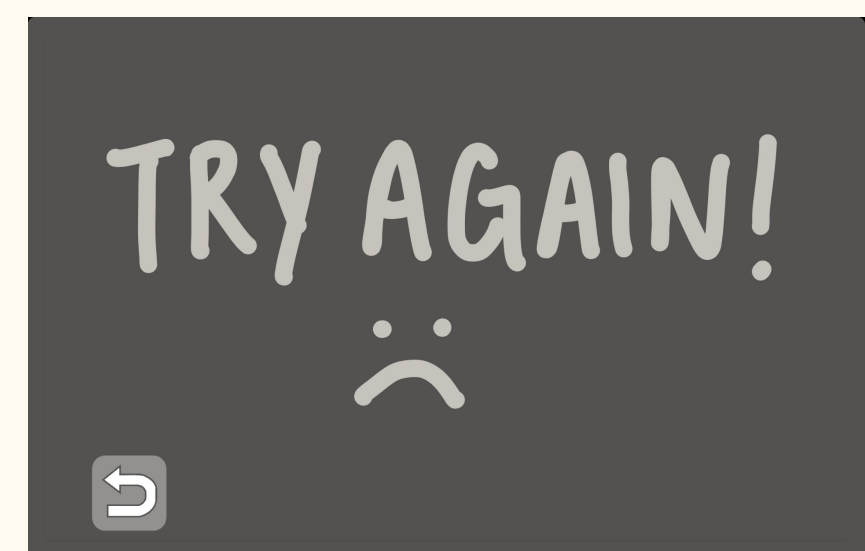
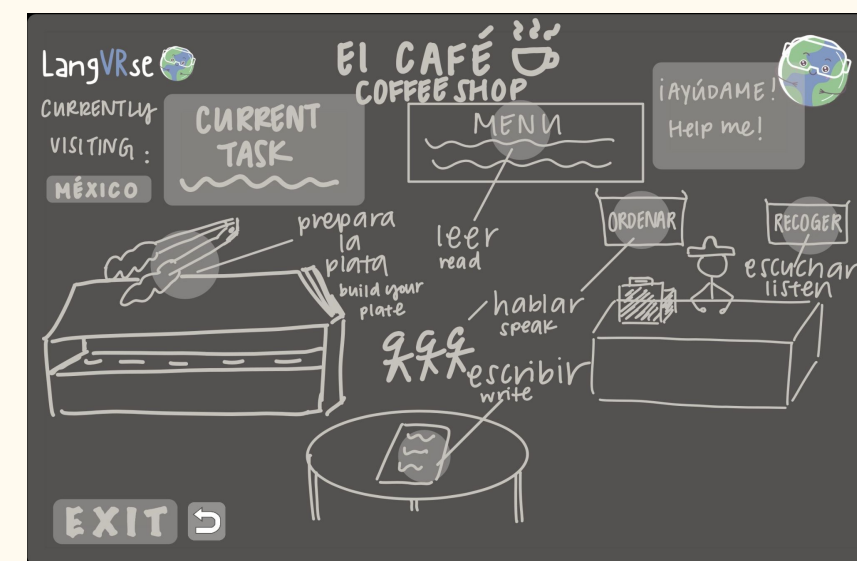
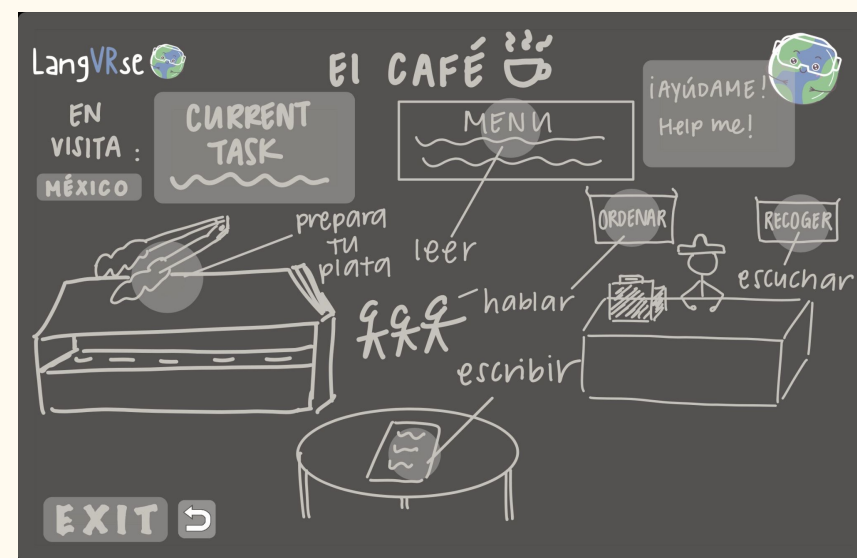
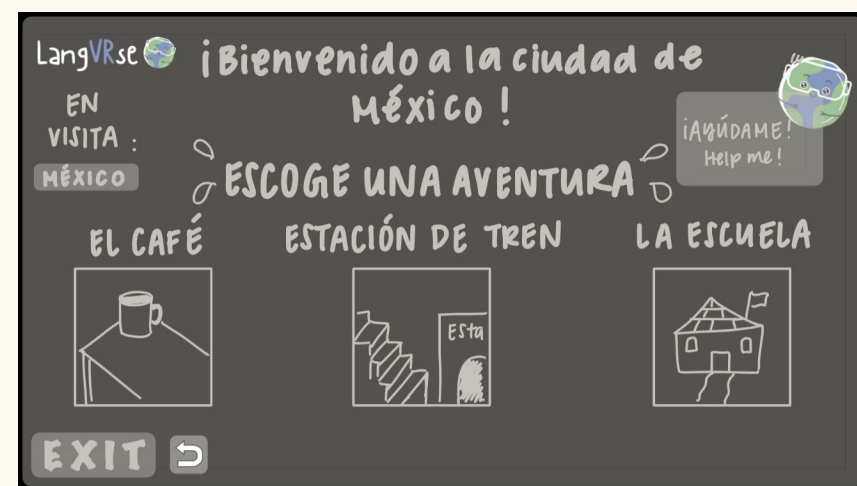
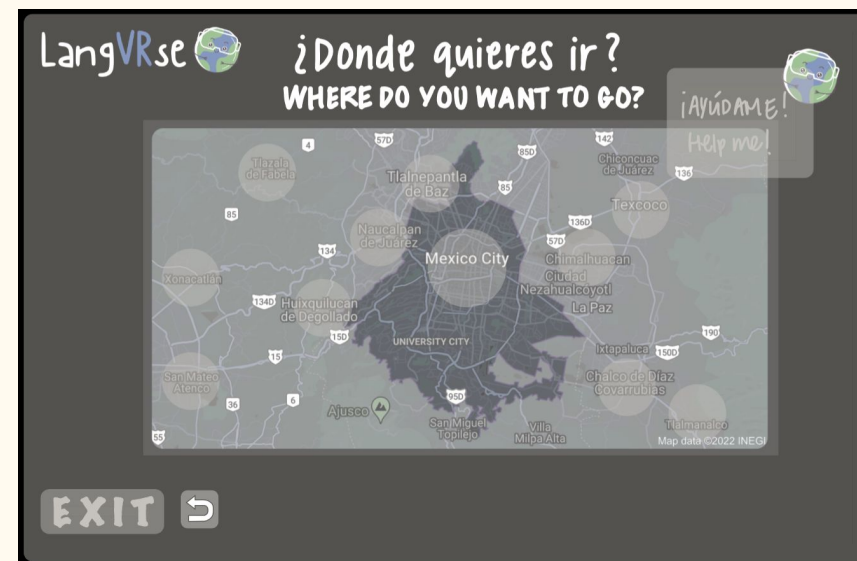
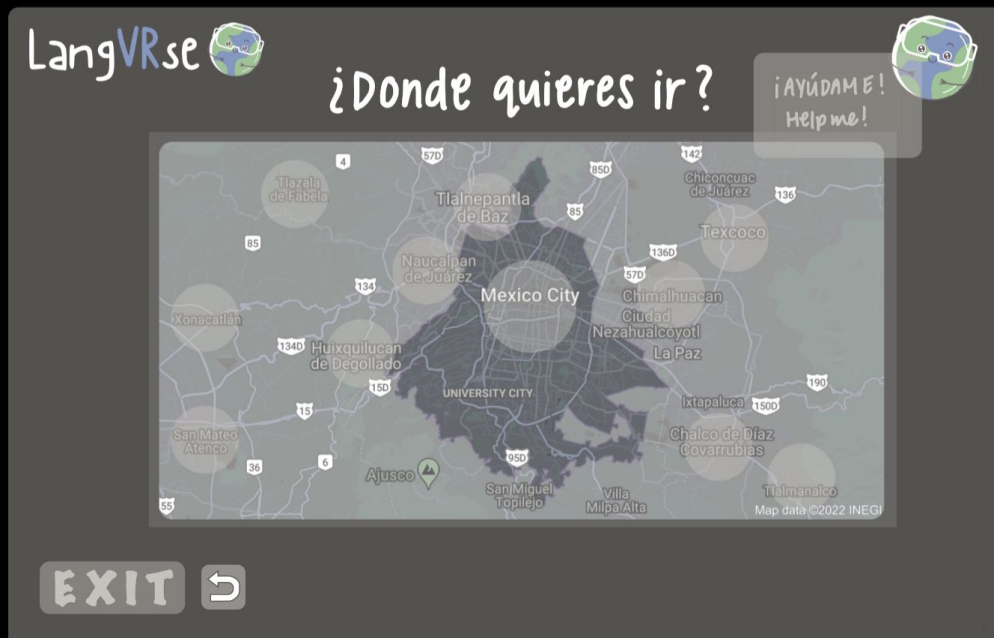
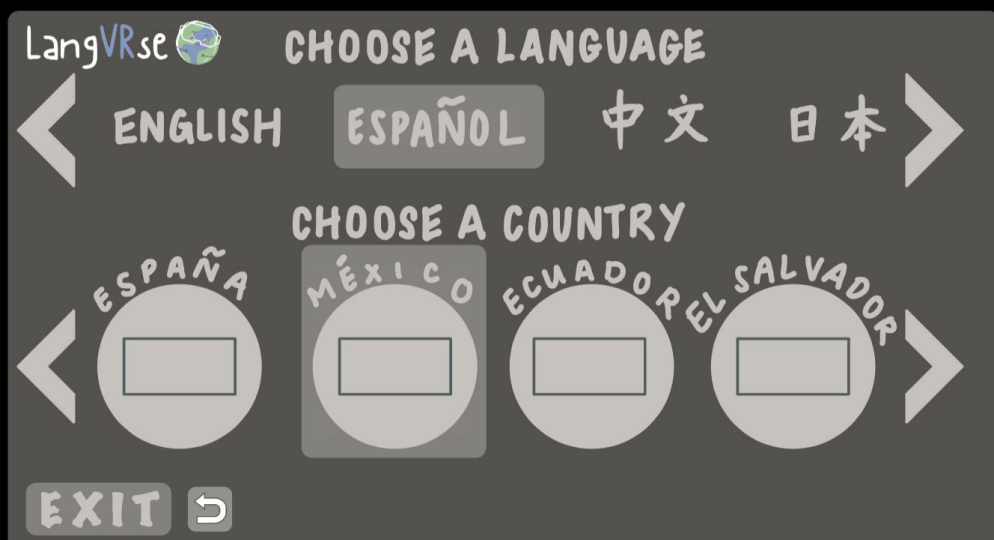
Concept Sketches

The sketches illustrate the following user flows:

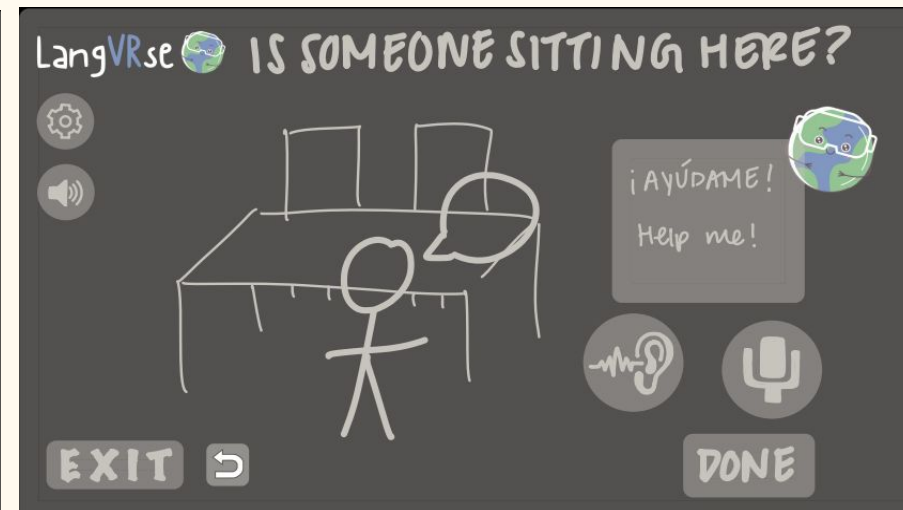
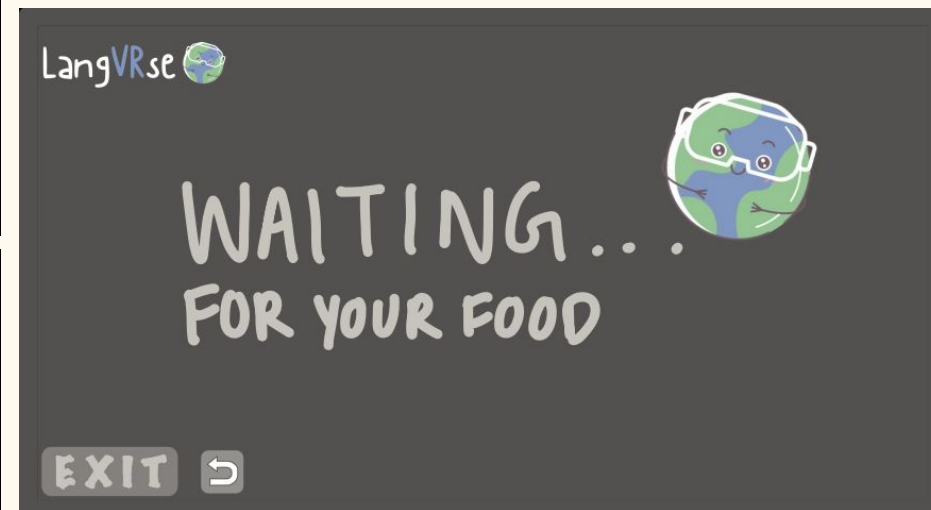
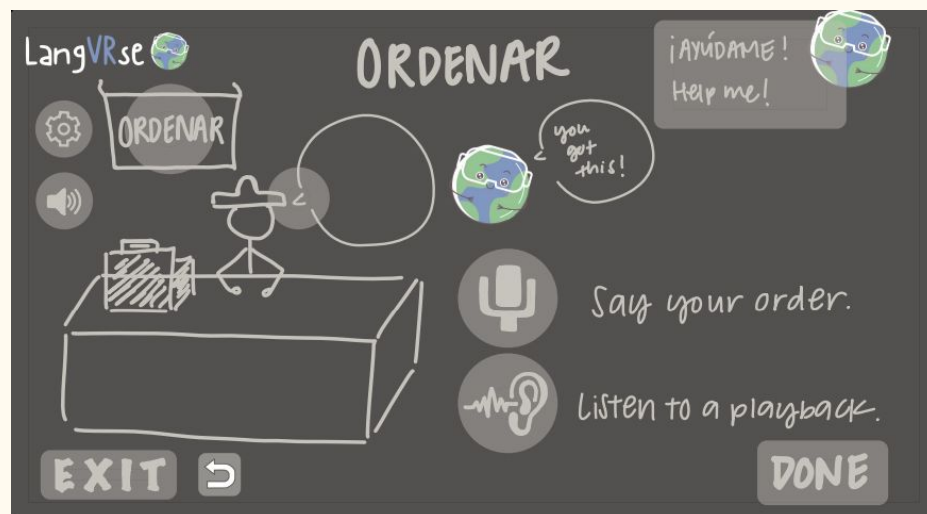
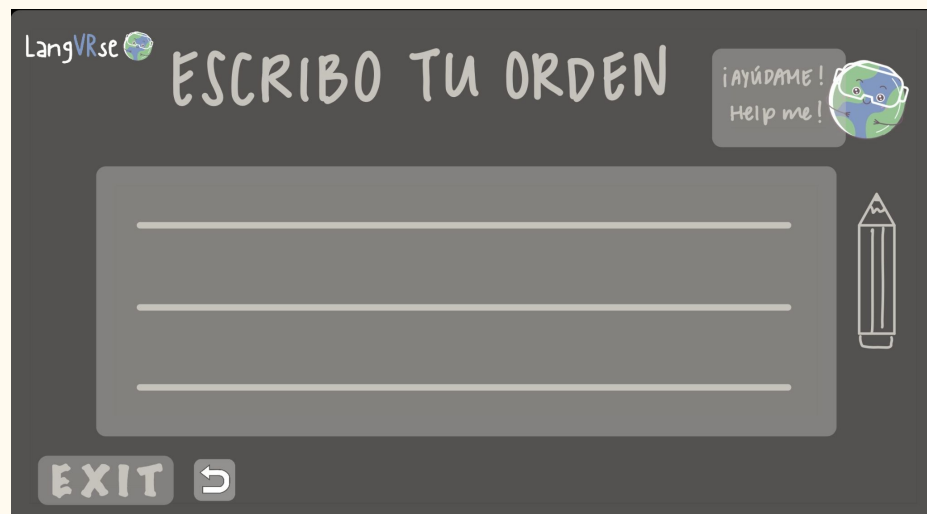
- Welcome:** User selects a language (English, Spanish, Chinese, etc.) to learn.
- Pick a Language:** User chooses a specific language (Chinese, Spanish, Korean) and a country (Spain, Mexico, El Salvador).
- Pick Your Adventure:** User selects an adventure location (Han River, Coffee shop, Subway station).
- Currently Visiting Mexico City:** User is placed in a virtual environment with a cafe and hotel.
- Currently In: Café:** User interacts with a cafe menu, ordering food and talking to a friend.
- Adventure Completed! Café in Mexico City:** User receives a mission list for the cafe (order food, chat w/ friend, see stats).
- CONGRATS ROCKSTAR!:** User receives a congratulatory message and a map of learned words.
- Mission Report:** User views progress for South Korea, Mexico, and China, including words learned and fluency points.
- Your Language Journey:** User tracks practice frequency, fluency points, and progress towards fluency in different languages.

Crazy 8's Workflows

Low-Fi Prototype



Low-Fi Prototype



Tasks & Task Flows

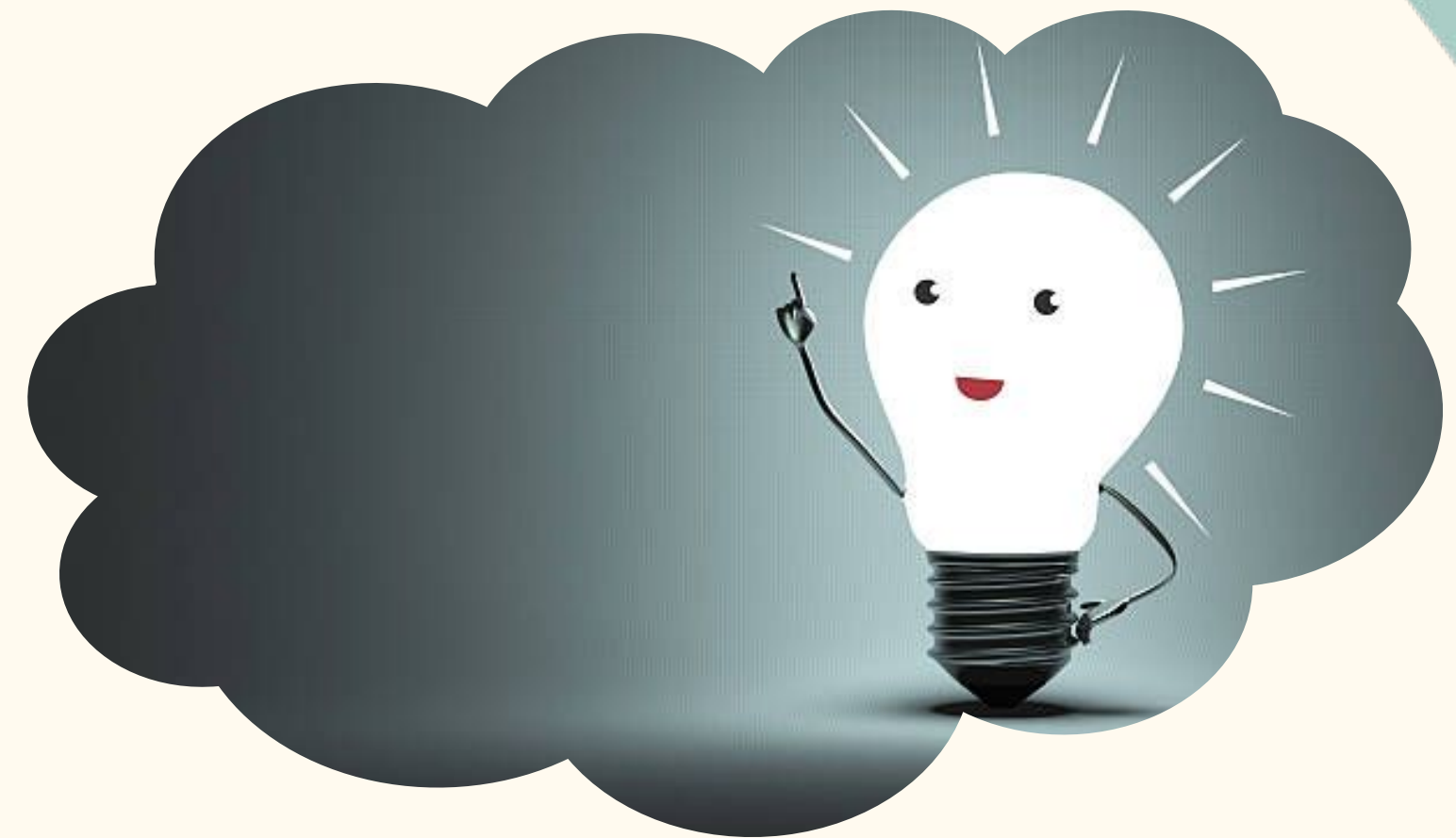
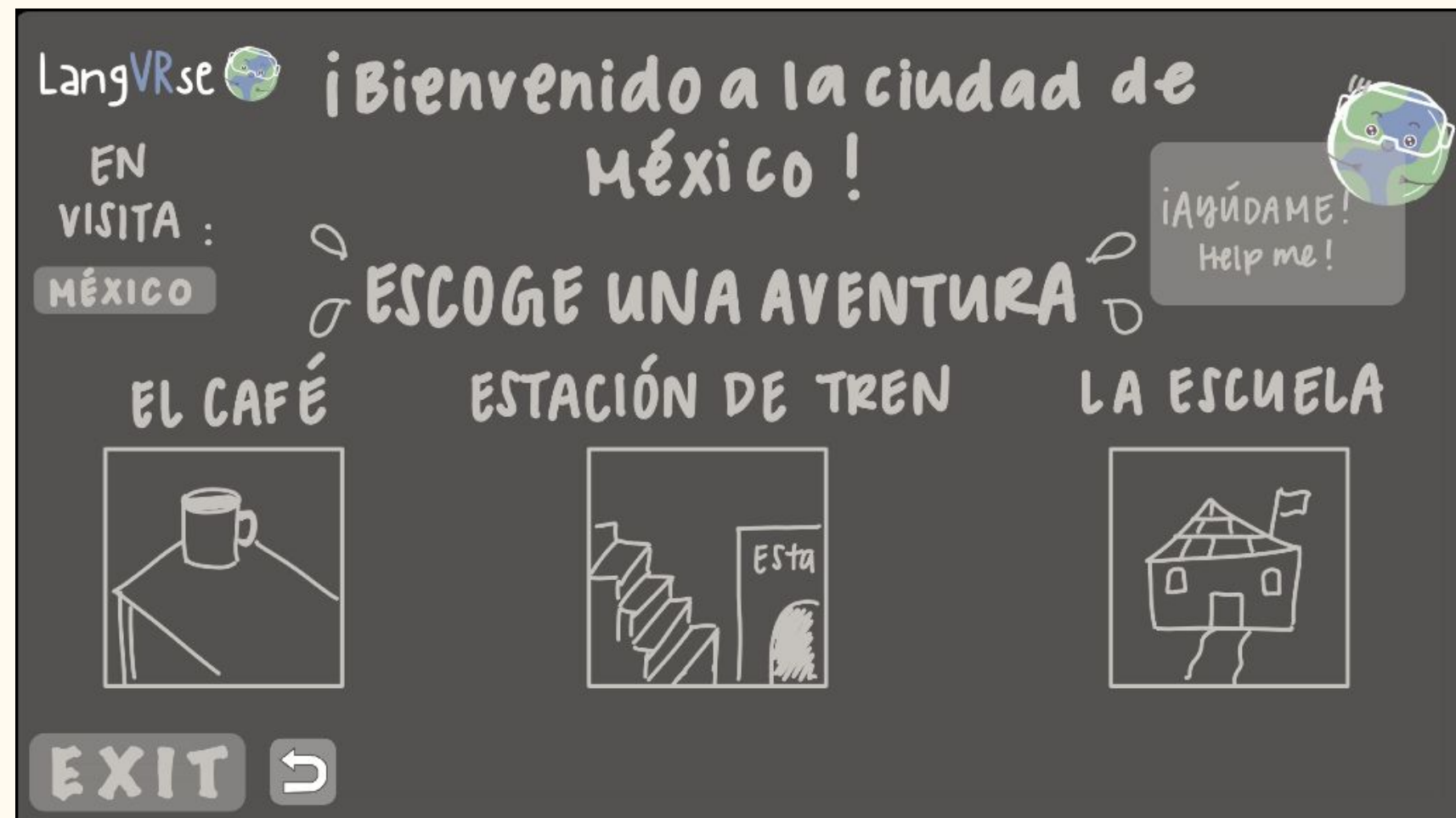
Task 1 (Simple): Comprehend simple phrases in a language of interest. (**understand**)

Task 2 (Moderate): Be able to read and write common statements (name, introduction, etc.). (**produce**)

Task 3 (Complex): Be able to answer questions and follow instructions (without context clues). (**engage**)

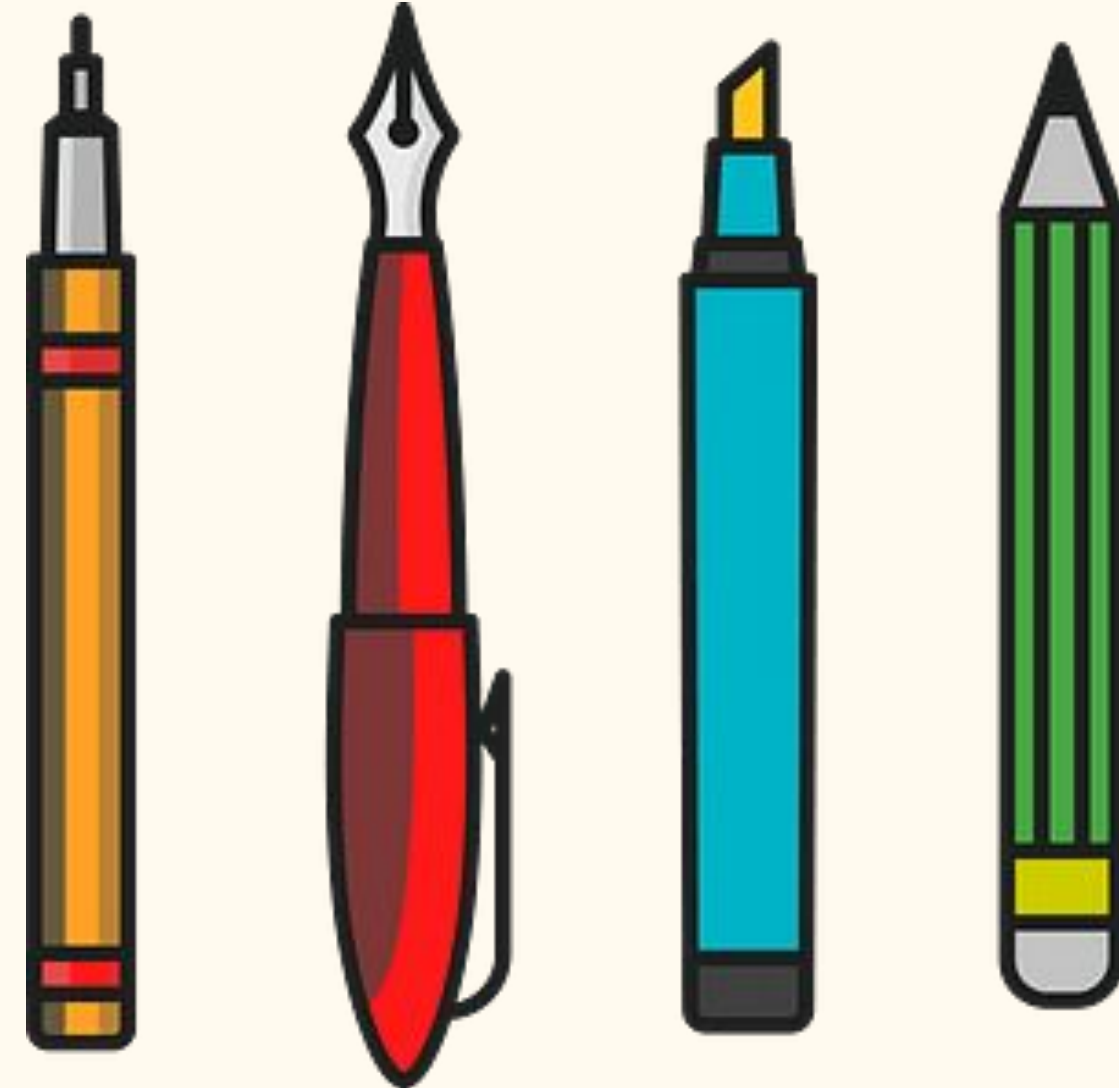
Understand: “Comprehend simple phrases in a language of interest.”

**Simple
Task**



Produce: “Be able to read and write common statements (name, introduction, etc.).”

**Moderate
Task**



Engage: “Be able to answer questions and follow instructions (without context clues).”

Complex Task



User #1

10-year old 4th grade student who attends a bilingual elementary school



User #2

18-year old senior in high school who learned a new language at the age of 15



User #3

75-year old retired taxi driver, scholarship chair and current community activist and educator who is monolingual



Prototype

Usability

Testers



Experimental Method

Figma

- Click for navigation
- Interactivity-oriented
- Aloud thinking
- Post-experience follow-up



Experimental Results: User #1

“I really liked the settings
[the cafe experience] that
you played the game in”





Experimental

Results: User #2

“ It was fun looking at the menu and thinking about of what to order, like in real life situations...I think maybe waiting in line and starting conversations with strangers like what conversation starters are like can be cool”





Experimental

Results: User #3

“...limit the choices on ordering and serving and other things. You can have a person in the restaurant who responds to the choices of the people. And the responses can be variations of ‘very good’”



you're doing a really good job.

Suggested UI Change #1

**More Pictures of the
Country/Location Visited**



Suggested UI Change #2

**Tasks Listed in a Strict Order with
Better Indication of the Task List**



Greater Care While Designing the Aesthetics of Adventure Rooms



**Suggested UI
Change #3**

Summary

Task Flows

Crazy 8's Rapid Prototyping.
Tasks for users to understand,
produce and engage with a
language.

User Experience

Engaging, like real-life
experiences, aesthetic, low
stakes, positive words of
affirmation

Next Steps

Pictures/Videos/Music,
Organization, and Attention to
Detail in Virtual Environments

Thank you!

Do you have any questions for us?

