

SpeakEasy

Low-fi Prototype

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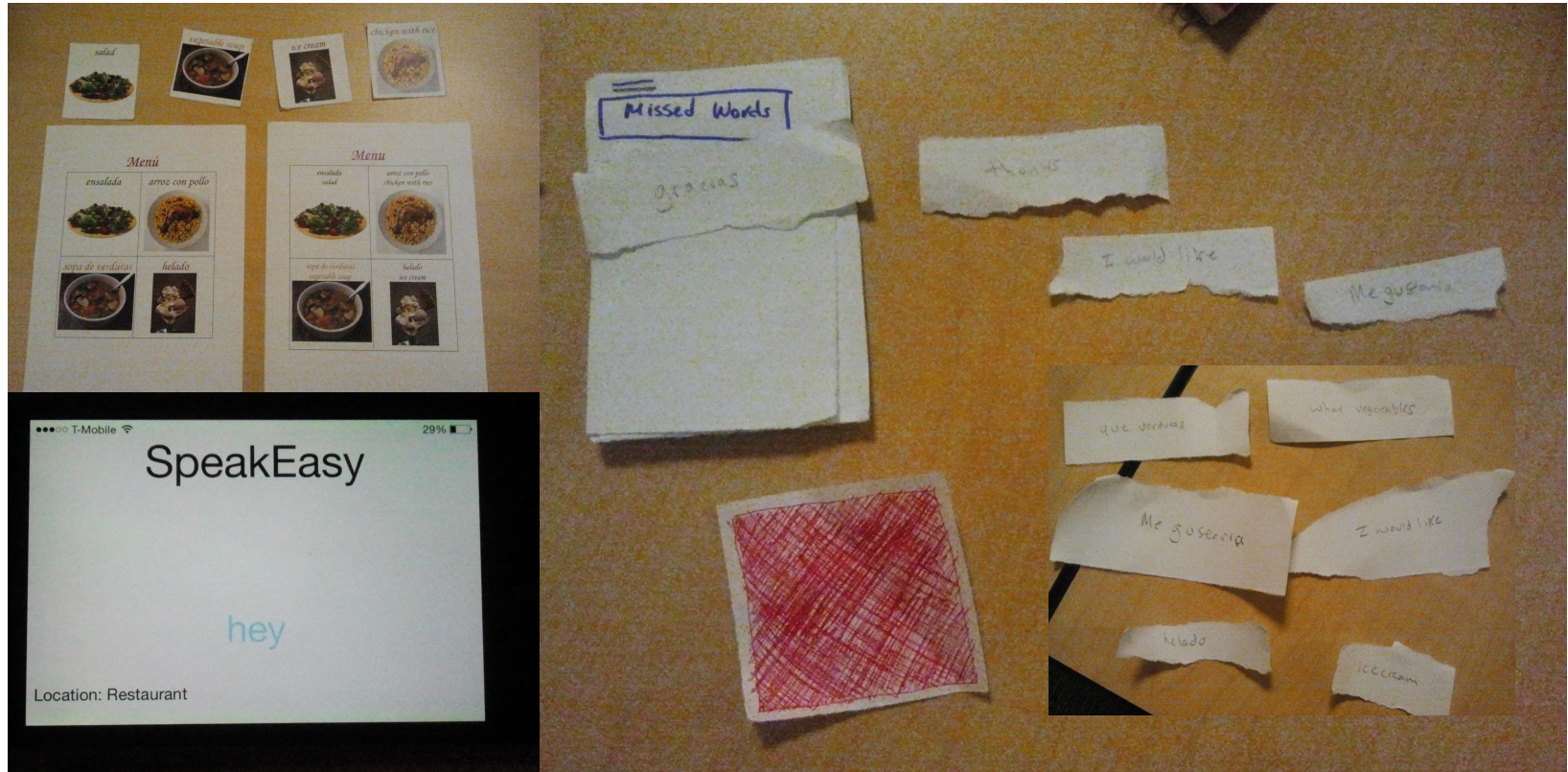
Mission Statement

Enable users to learn language easily and intuitively while having contextual support

Tasks

- 1. Intuitive Pronunciation**
- 2. Contextually Sensitive Language Support**
- 3. Active Language Learning Integration**

Lo-fi Prototype



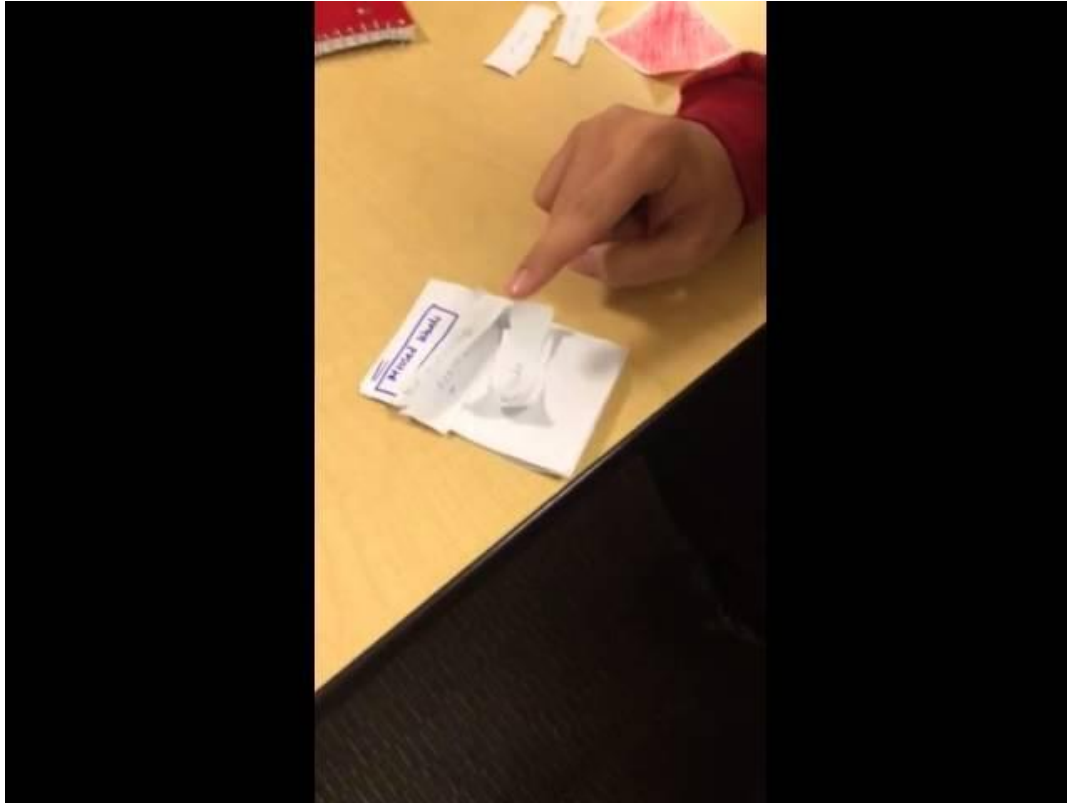
Scenario 1: Intuitive Pronunciation



Scenario 2: Contextual Language Support

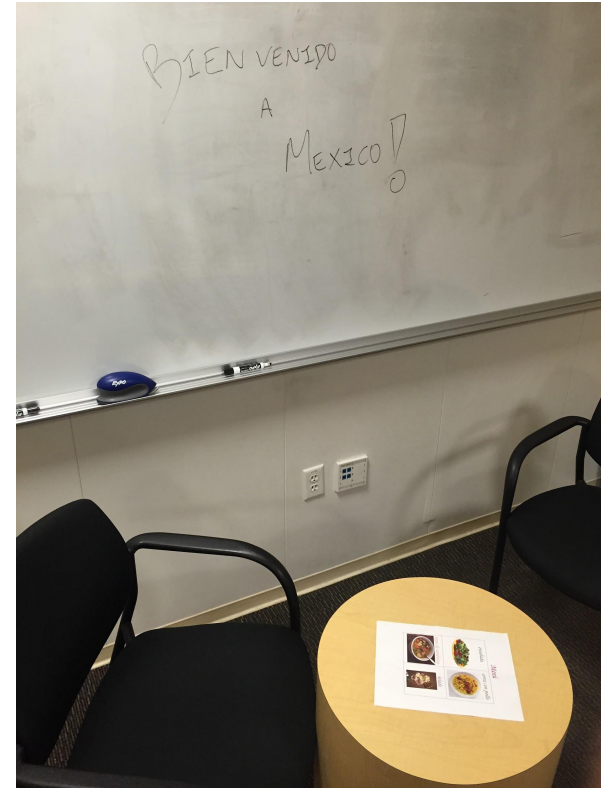
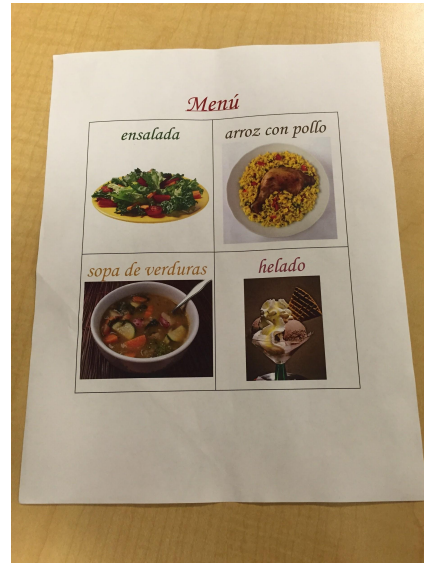


Scenario 3: Active Language Learning



Experimental Method (1/2)

- Participants
 - Know a little bit of Spanish
 - Stanford students
 - Not compensated
- Testing environment
 - A restaurant in Mexico
 - Table and chair to resemble restaurant
 - Spanish menus with food options



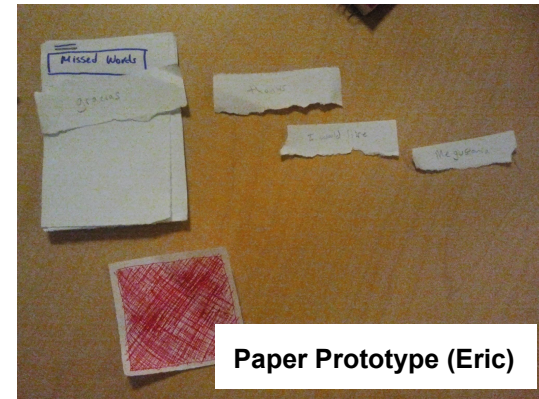
Experimental Method (2/2)

● Procedure

- Brief overview of app and setting
- Carlos played the Mexican waiter
- Gabriela typed phrases to help user
- Eric took notes of mispronunciation
- Tommy took notes of user reactions

● Test Measures

- How relevant a user found a suggestion
- How many times each feature was used
- Number of gesture swipes during conversation
- Fluency of conversation
- Ability to pronounce/learn to pronounce words



Experimental Results

- Swiping from the suggested phrase to translation is slow
- Difficulty with understanding what waiter said, unsure of how to respond
- Gestures were confusing and unintuitive for new users
- People liked that they could review missed words
- Suggestions were on-point and useful
- Overall, people liked the idea and could see themselves using it

Suggested UI Changes

1. Suggested phrases should show both native and new language at the same time
2. Also provide translations for what the other speaker said
3. Identify more intuitive gestures to use, or have tutorial for new users
4. For added review, keep transcript of conversation

Summary

- Designed low-fi prototype to include both paper prototypes and wizard-of-oz techniques
- Tested low-fi prototype in a fictional restaurant scenario.
- Discovered that gestures needed to be more intuitive, that app must provide more translation support