

# SkillSwap

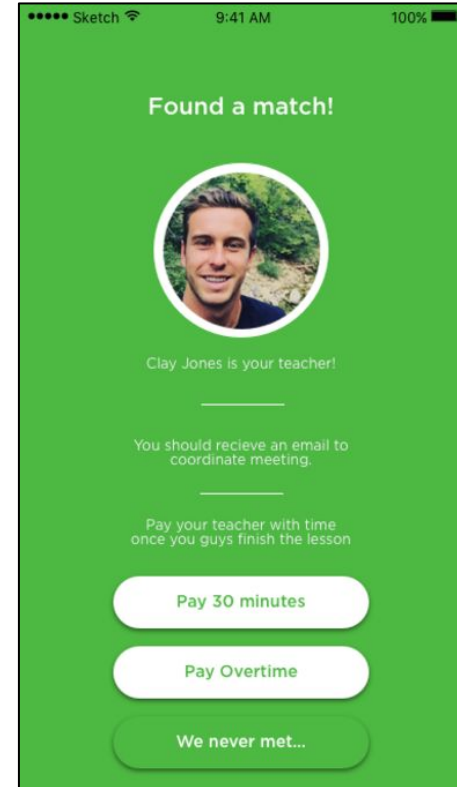
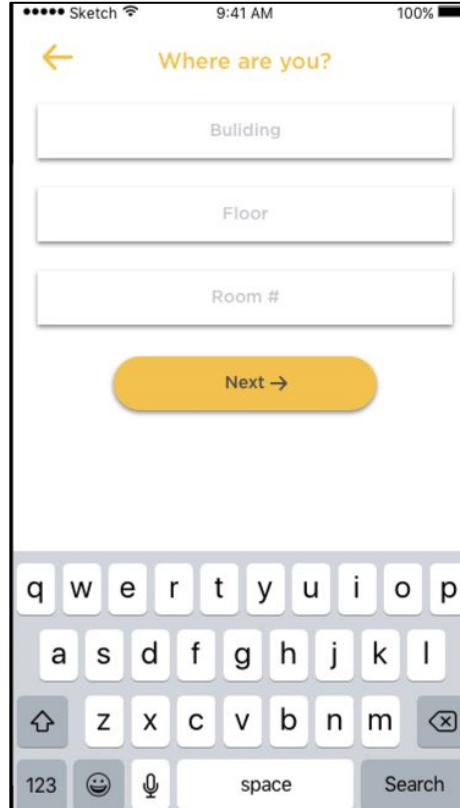
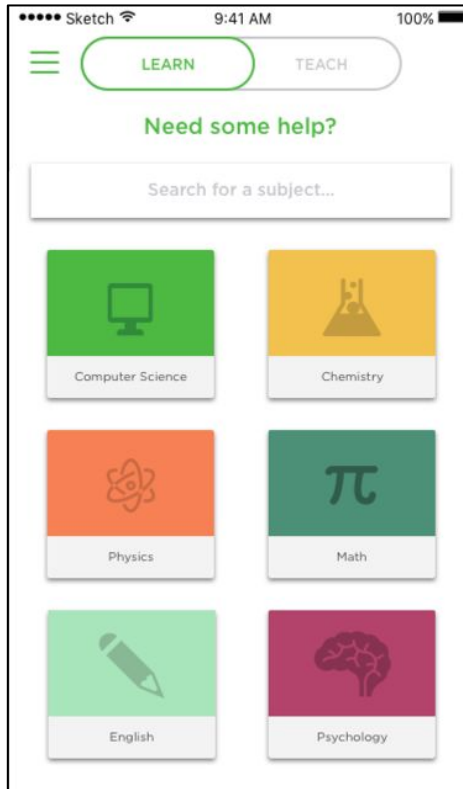
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Brad R, Clay J, Crystal T, Dana M

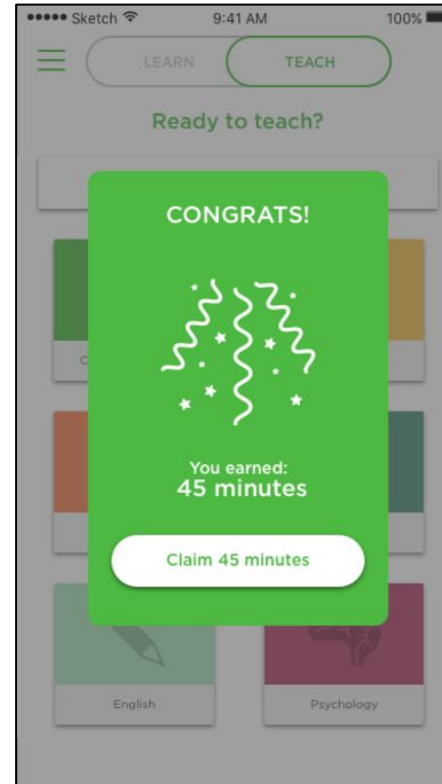
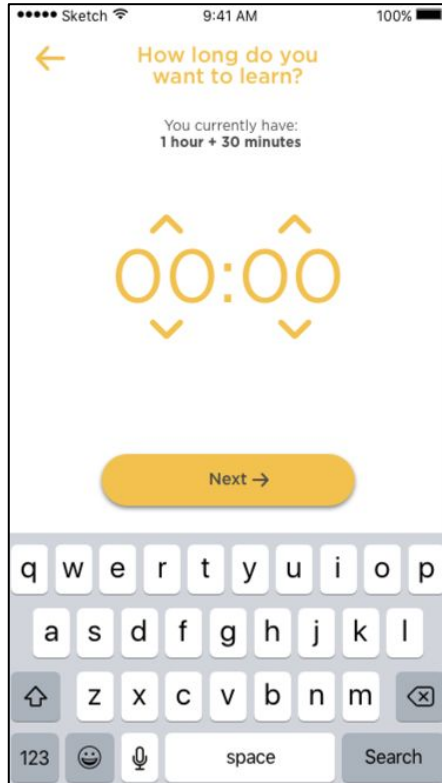
# Major Questions from Class Feedback

- How do we define the word “skill?”
- How do we maximize swaps?
- How do we work with people’s busy schedules?
- Do we want to set up a one-time interaction or a continuing relationship with regular meetings?

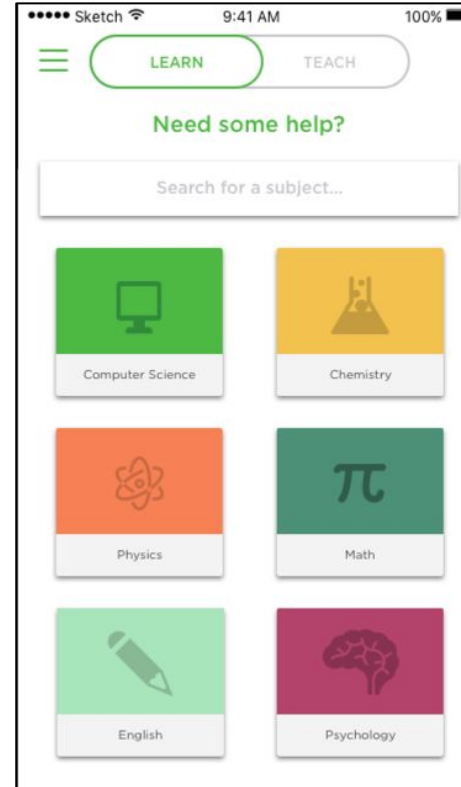
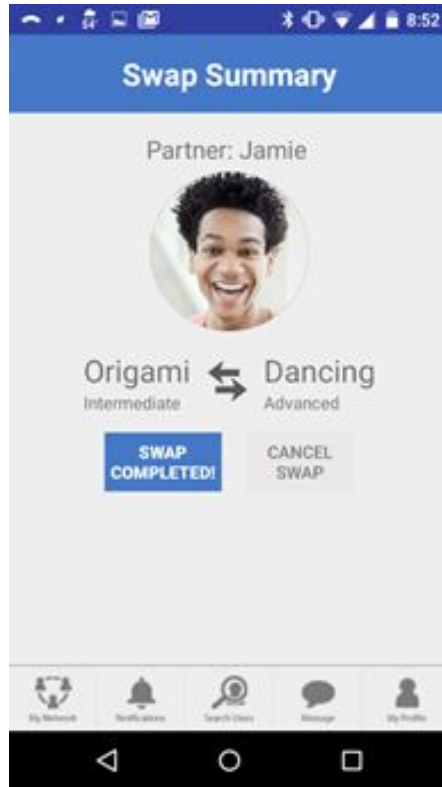
# Change 1: Instant On-Demand Meetings



# Change 2: Time-based Payment System

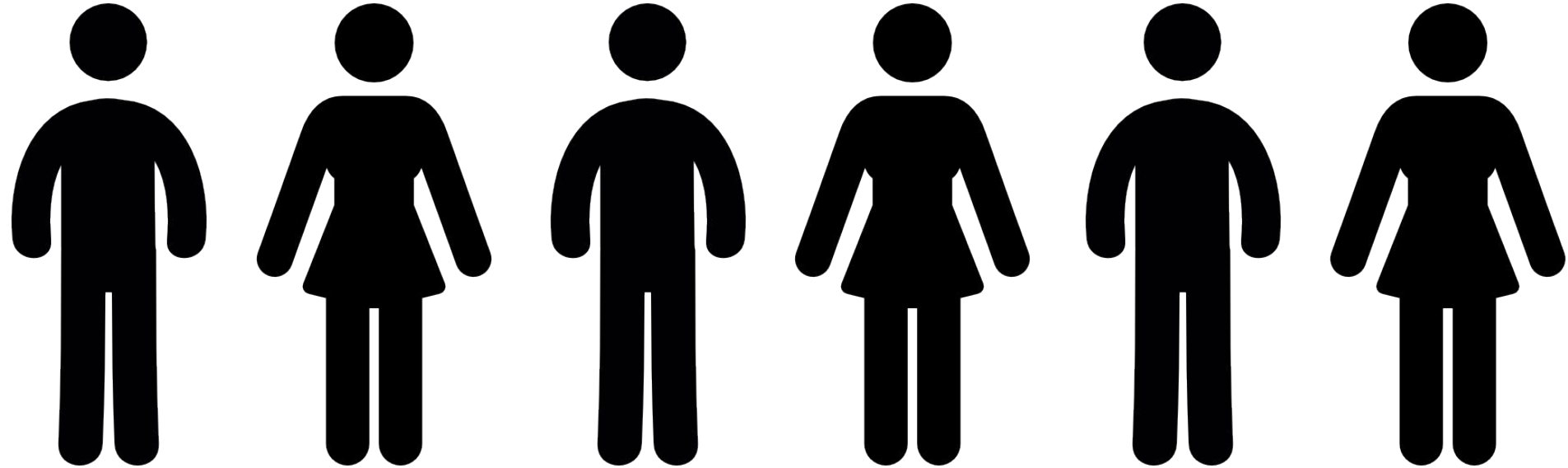


# Which One is Better? Let the Users Decide!



# Participants

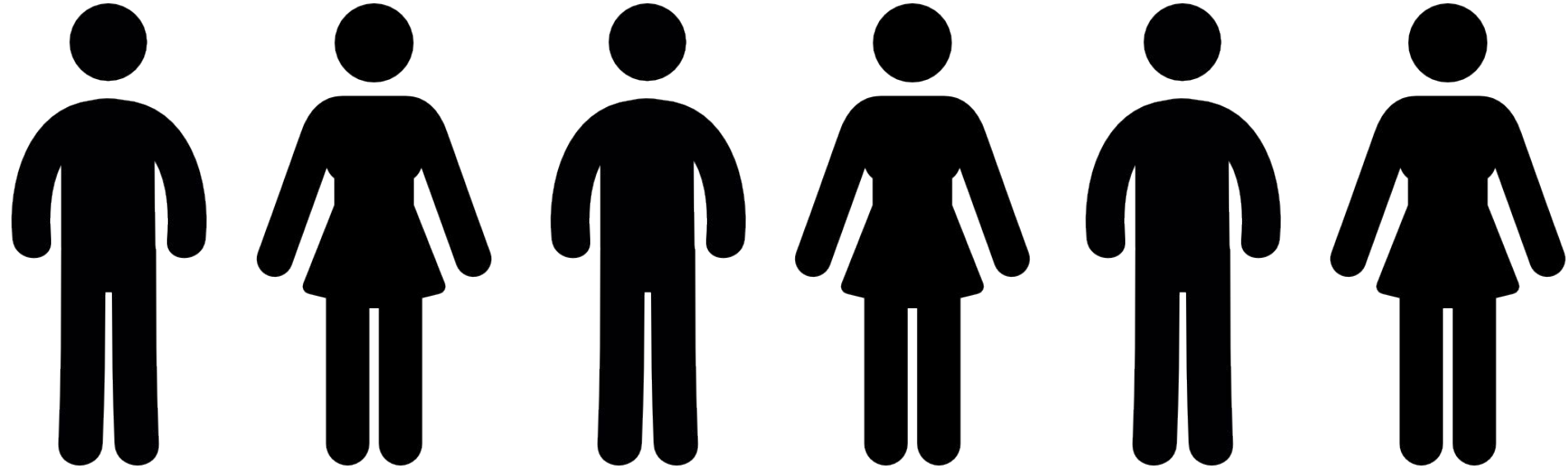
**6 Stanford students** between the ages of 19-23.



# Participants

**Recruiting:** approaching them in quiet areas

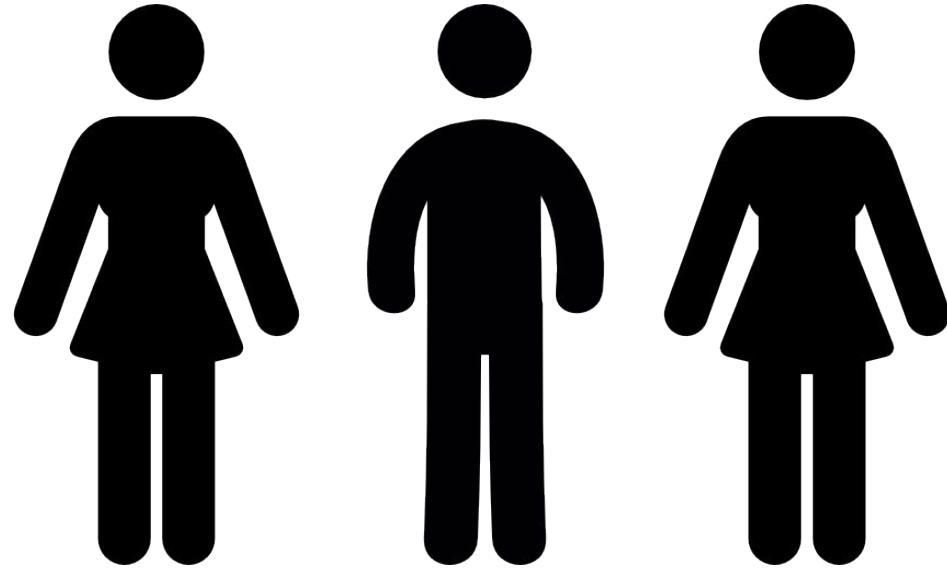
**Compensation:** up to \$5 worth of a snack of their choosing.



# Participants

50% said they had experience teaching or tutoring.

50% said they had no experience.



# Apparatus

- Location: Dorm room, private room in Old Union
- Original Prototype: Android device, Appetize.io on iOS
- Pivot Prototype: medium-fi on Marvel
- Recording: Lookback, AZ Screen Recorder

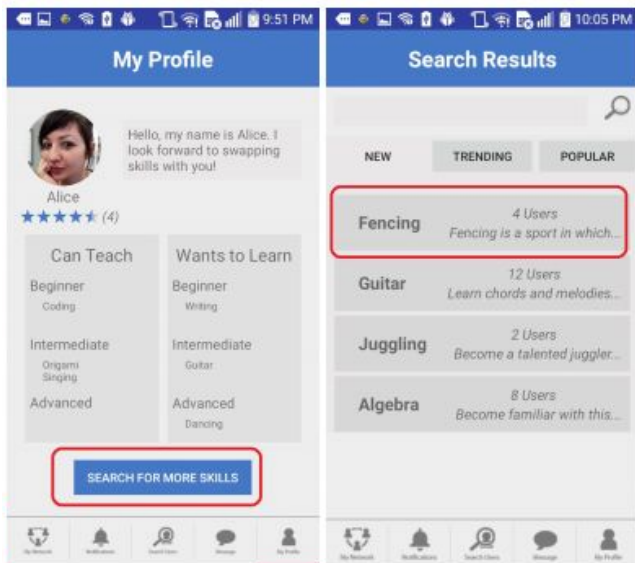


Appetize.io

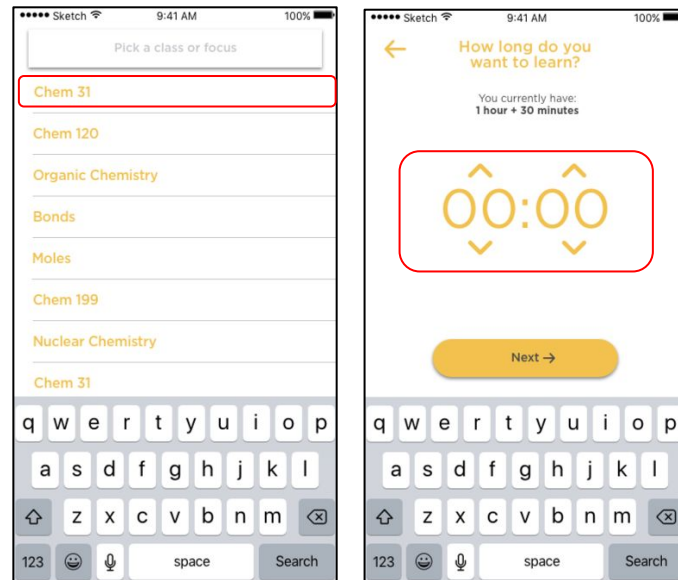


# Task 1: Add what you Want to Learn

Original Prototype: Add Beginner Fencing to your profile as a skill you want to learn.

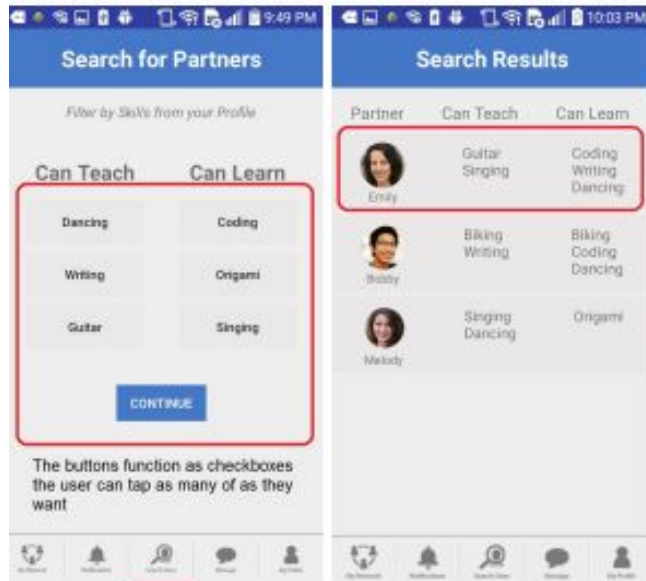


Pivot Prototype: Send a request to get help with a Chem 31 pset.

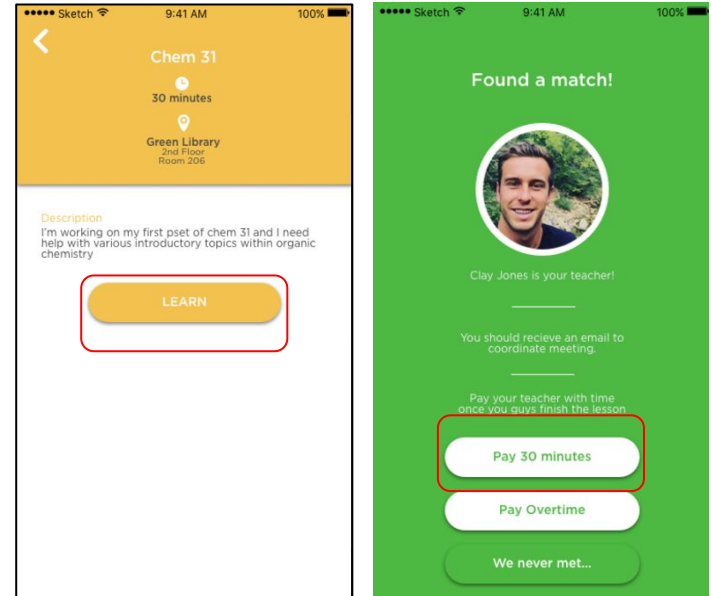


# Task 2: Find a Skill Partner

Original Prototype: Find a potential partner who knows guitar and wants to learn coding, and send them a swap request.

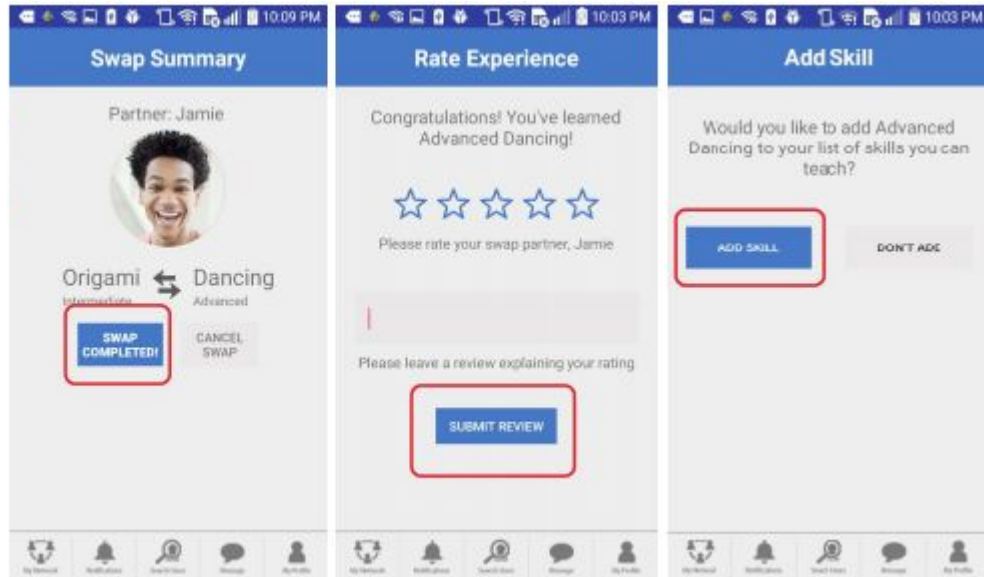


Pivot Prototype: Find a partner to help you with Chem 31 and pay him for his time.

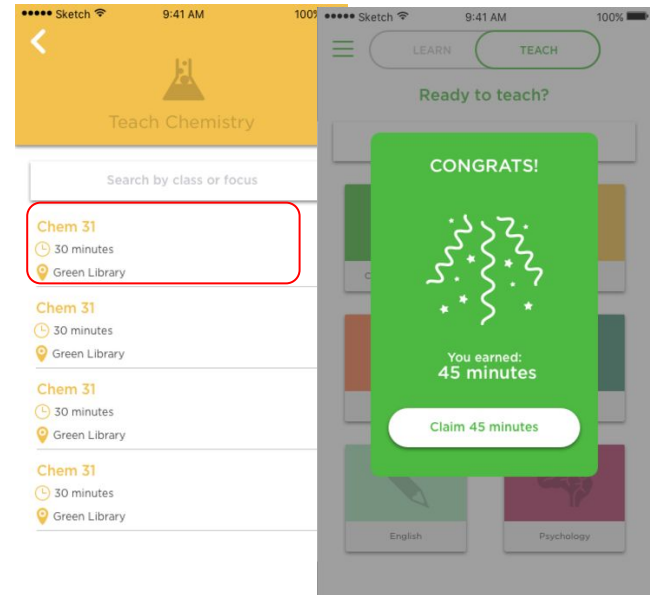


# Task 3: Teach what You've Learned

Original Prototype: Confirm you have finished swapping and add the skill you learned to your profile as something you can teach.



Pivot Prototype: Now that you're done with your pset, find someone else who needs help in Chem 31.



# Procedure

1. Give context
2. Get consent form signed
3. Show how device works if they were unfamiliar with it  
(Android vs. iPhone)
4. Follow the **script** - tell them task and then silently observe
5. Ask follow-up questions

# Test Measures

- Quantitative

- Time spent on each task
- Number of mis-taps
- Number of backtracks

- Qualitative

- In what context would you use this app, if any?
- What would you want to learn?
- What would you want to teach?

# Original Prototype Results

	Time spent (avg)	Mis-taps	Backtracks	Critical Instances	
Task 1	~0:51	15	1	+2	-5
Task 2	~1:40	8	4	+4	-8
Task 3	~0:35	4	0	+3	-3

# Pivot Prototype Results

	Time spent (avg)	Mis-taps	Backtracks	Critical Instances	
Task 1	~0:32	1	2	+1	-1
Task 2	~0:08	1	1	+1	-0
Task 3	~0:13	0	0	+2	-0

# Notable Quotes

## Original Prototype

- “I have no time to learn new skills.”
- “I would only meet up with other girls, but not guys.”
- “I’m not really good at anything, so I don’t know what to teach.”
- “If there’s a massive community, I want valuable teachers... at least a few skilled figures.”
- “I would use this to share experience and advice.”

## Pivot Prototype

- “I would want to match with people in the same class as me to study together.”
- “Tutoring is not something that is spur of the moment.”
- “I would only use this the night before a pset is due.”
- “I would use this for regular tutoring in classes I struggle in to replace going to TA office hours.”

# Suggestions for Skills

- Self-defense
- Cooking
- Welding
- How to do taxes
- Speaking a language
- Soldering
- Hardware Design
- Informational Interviews
- Financial Aid
- Life advice



# Changes to the Field Study

- Give users more freedom to choose what skill to learn
- Reconsider phrasing of follow-up questions
- Get users in different environments... studying alone in the dorm, at office hours, during their free time, etc.
- Add simulation of the meeting itself

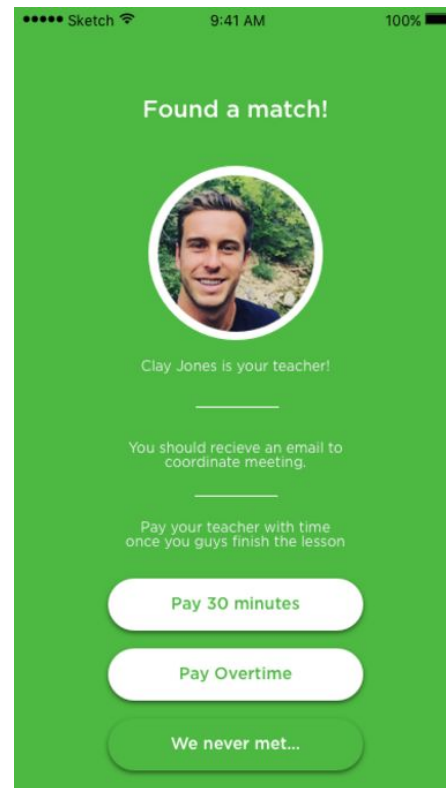
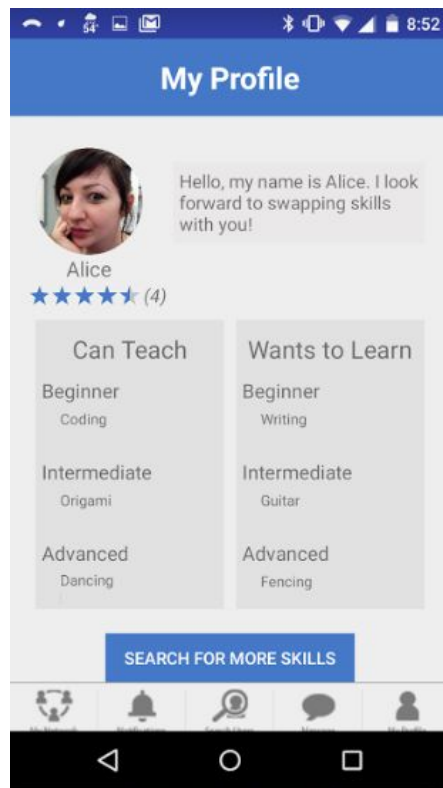
# Changes to Interface: Instant Meetings

- Move to instant, on-demand meetings
  - Add flexibility with getting immediate response
- Add time economy



# Changes to Interface: Social

- Keep rating system
- Add option for “Study Buddy”
  - Work together with someone in the same class
- Add designated public meeting locations



# Summary

- Tested 2 prototypes on 6 Stanford students
  - Original: swapping one skill for another
  - Pivot: holding up a help sign and paying someone for their time
- Moving to simpler, streamlined interface
- Students often realize they need help last minute
- Students want to know who they are meeting and want meaningful connections

