armoir Field Usability Study

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The Team



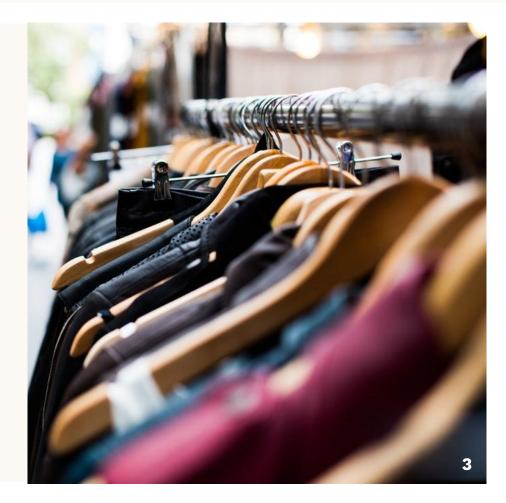
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armoir find that missing piece





Overview

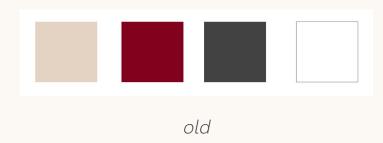
- 1. Prototype Changes
- 2. Methods & Tasks
- 3. Results
- 4. Discussion



Changed typeface and colors



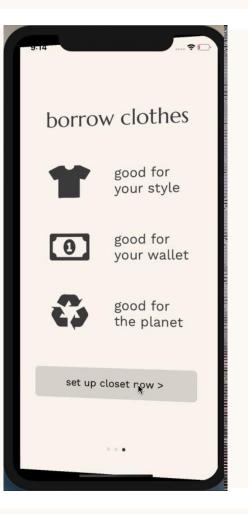
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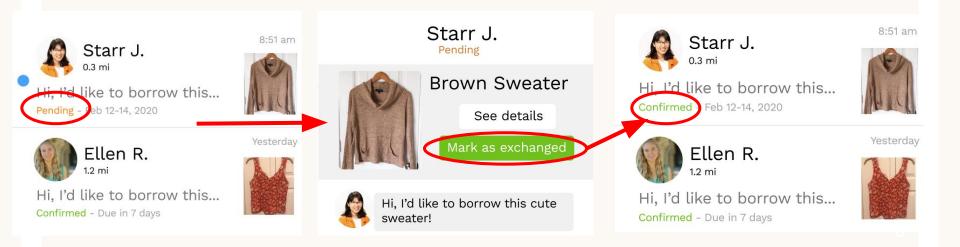


new

- Changed typeface and colors
- Implemented onboarding screens



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- Redesigned inbox to support messaging and marking exchanges



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- Redesigned inbox to support messaging and marking exchanges
- Updated photos of clothing to fit platform



Showing: All Items

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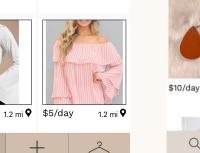
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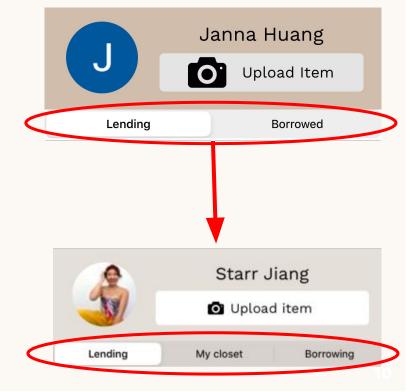
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- Changed typeface and colors
- Implemented onboarding screens
- Redesigned inbox to support messaging and marking exchanges
- Updated photos of clothing to fit platform
- Added additional tab for clothing uploads ("My closet") in closet tab





Methods & Tasks

Participants

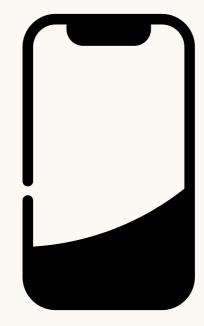


Angela Senior Shops on Abercrombie website Wynna High Schooler Shops on Urban Outfitters website **Colin** Senior Buys socks off of Amazon

Vamsi Senior Likes Amazon Prime Wardrobe Tara Senior Doesn't online shop Michelle SJSU Student Buys working leggings online

Apparatus

- Filmed with iPhone cameras
- Firebase for registering clicks
- Ran tests in participants' rooms/closets
- Ran app on iPhone 10
- Participants compensated with \$10 Amazon gift card and many thank you's



Procedure

- Pre-written script for short demo of system
- Collected demographic data
- Signed consent form for data collected
- Handed out 5 tasks on separate index cards for participants to complete
- Debriefing interview
 - Follow-up questions on completing tasks
 - Thoughts & feelings while using app

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Test Measures

- Completion of each task
- Time to complete each task
- Buttons tapped to complete a task
- Errors made while completing task
- Critical Incidents (+/-)
- Thoughts/feelings while completing tasks

Focus on tasks in lender/borrower interaction

- 1. Explore and request to borrow clothing
- 2. Upload clothing to your account
- 3. Approve borrow request and mark clothing as exchanged
- 4. Send a reminder to get clothing back
- 5. Check when borrowed clothing is due

Tasks Borrower



1. Explore and request to borrow clothing

What we looked for:

• How did users search - Keywords? Size? Type?



2. Upload clothing to your account

What we looked for:

- How did participants photograph their items?
- How did participants choose the price they set?



3. Approve a borrow request and mark clothing as exchanged

What we looked for:

- Could users find the inbox feature?
- How did they interact with the chat view?



4. Send a reminder to get clothing back

What we looked for:

• Do the users go to the inbox or the closet to complete this task?

Tasks Borrower



5. Check when borrowed clothing is due

What we looked for:

• Where did users go to find this information?



Results: At A Glance

Task	Average Completion Time	Fastest Time	Total Errors	Completed
I	20.23 s	10.05 s	1	6/6
2	40.25 s	31.23 s	1	6/6
3	53.19 s	15.23 s	12	6/6
4	29.33 s	8.9 s	5	6/6
5	8.1 s	2.4 s	0	6/6

1. Explore and request to borrow clothing

Average Completion Time: 20.23 s Fastest Time: 10.05 s Errors: 1

Completed: 6/6

1. Explore and request to borrow clothing

Critical Incidents:

- 2 users thought the onboarding screen with photos was the closet
- 2 users stated that scrolling through the clothing was fun, interesting, and intuitive

2. Upload an item of clothing from your closet.

Average Completion Time: 40.25 s Fastest Time: 31.23 s Errors: 1

Completed: 6/6

2. Upload an item of clothing from your closet

Critical Incidents:

- Users wanted to hang the items of clothing from hangers in the photos
- 2 users did not take the task very seriously and put random values for the descriptions/price of the uploaded items

3. Approve borrow request and mark clothing as exchanged

Average Completion Time: 53.19 s Fastest Time: 15.23 s Errors: 12

Completed: 6/6

3. Approve borrow request and mark clothing as exchanged

Critical Incidents:

- 4 users went into the closet first
- 2 users did not know what to do and asked for hints

4. Send a reminder to get clothing back

Average Completion Time: 29.33 s Fastest Time: 8.9 s Errors: 5

Completed: 6/6

Task 4: Send a reminder to get clothing back

Critical Incidents:

- Half of the users looked for this in the closet, the other half looked in the inbox (both are correct)
- Users who looked for the reminder in the closet didn't know which tab to go into

5. Check when borrowed clothing is due

Average Completion Time: 8.1 s Fastest Time: 2.4 s Errors: 0

Completed: 6/6

5. Check when borrowed clothing is due

Critical Incidents:

- Even split between going to closet vs. going to the inbox
- Testers were quick to complete this task in every trial



Discussion

"

There should be a **guided walkthrough** when you first use the app to show you where the inbox is. I like that you can message people through it, but **it's hard to find and understand its purpose** when I first enter the app.

"

I'm interested in **lending out my clothing for free** as long as the other person is **trustworthy** and doesn't mess my clothes up. I'd like to see the **rating of each user** so I know how much I can trust them.

I would use this app to get **outfits for events or "rally wear"** since these are clothes that I don't always need but is nice to have when the occasion arises

"

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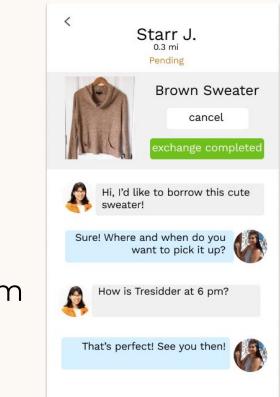
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- Users were split between washing their own clothing and having the borrower wash it
 - All remarked that having a deposit system would make them feel better about lending their clothes out
- Multiple users remarked that they weren't interested in making money off the app

Future Testing

- Fully implement chat feature for "real time" borrower/lender interaction
 - In future tests, have two users test at a time to coordinate item pick-up and return



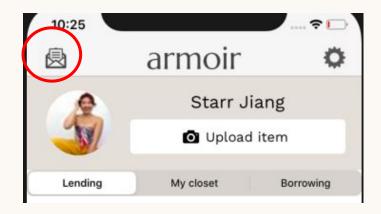
Future Testing

- Implement functionality for users to set the dates they want to borrow item
- Have pop-ups confirm a user's action whenever they send a borrow request and reminder

Potential Changes

Clarify the purpose of the inbox

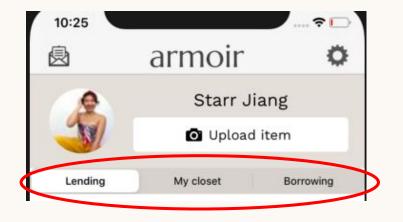
- Have a pop-up or screen in the onboarding that tells users the purpose of the inbox
- Add notifications



Potential Changes

Clarify the difference between the three tabs

 Consider renaming the tabs or have part of onboarding dedicated to explaining the difference



Summary

- Usability tests with 6 subjects, 4 from a Stanford row house, 1 high schooler, and 1 SJSU student
- All tasks were completed, certain tabs and buttons were not clear
- Need to fully implement the chat feature to continue testing direct borrower/lender interaction

Questions?