

UW ShareDNA App

Team EHD
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UW ShareDNA App



Overview:

- ShareDNA is a smart phone application
- Designed for individuals to share their genetic results with others
- Individuals can register and upload their own genetic results to share
- ShareDNA will track the number of people results are shared with and your relationship to the person



Target User:

- General Population Cohort
- Pre-established participants IRB Cohort



User Characteristics:

- Age 30-80
- Smartphone user
- Has considered genetic testing



Goals of this study:

- Study the design
- Consider it's relevance
- Review content
- Examine the overall experience



Methods & Procedures

Usability Study

- 6 participants
- 2 IRB-approved
- 4 general population
- Determine ease of use & quality of design

Survey

- 46 responses
- 35 passed screener
- Quantifying relevance and usefulness of app

Cognitive Walkthrough

- Gain understanding of app
- Identify key tasks

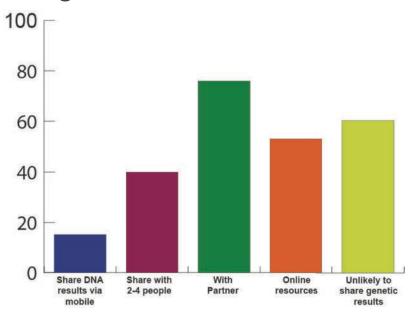


Quantitative Findings

- 30 39 years old
- 76% considered genetic testing
- 74% female
- 79% download apps 1-3 times a month



Quantitative Findings





Usability Test

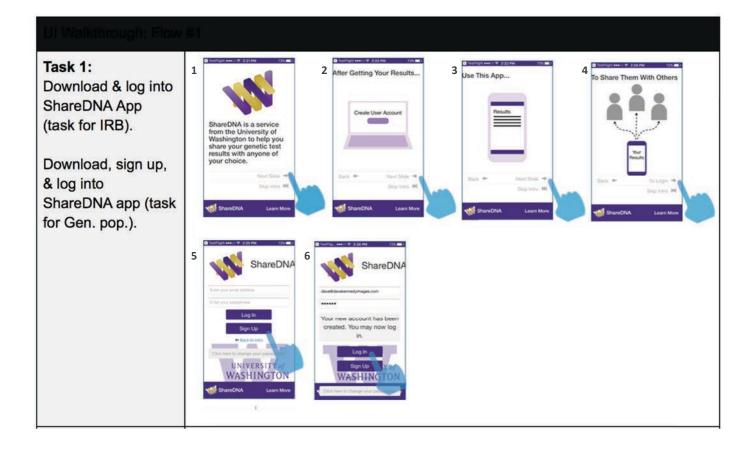
- CITI Human Subjects Training
- Video recording setup, script & note-taking sheets
- Conference rooms in Sieg, Health Sciences, & Schmitz Hall







Usability Test - Task 1





User Feedback

IRB Cohort

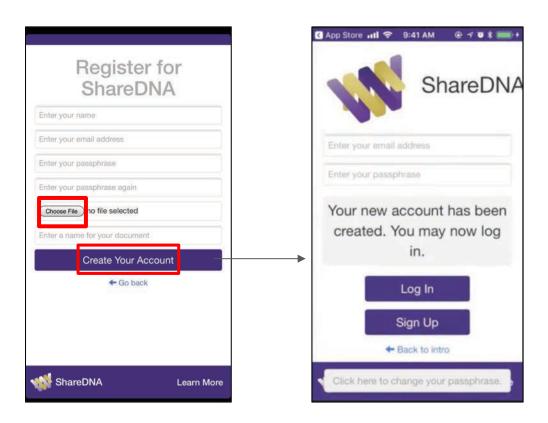
- "I normally don't click on the screens"
- "[The intro slides] were helpful, though I didn't know ultimately where I was going."
- "It was simple and straightforward."

General Population

- "Choose File. That makes no sense when you're doing a registration."
- "It seems odd that it tells me I can log in below the forms for email address and password."
- "If I just signed up and I entered all that stuff, why doesn't it just log me in and take me to the next page?"



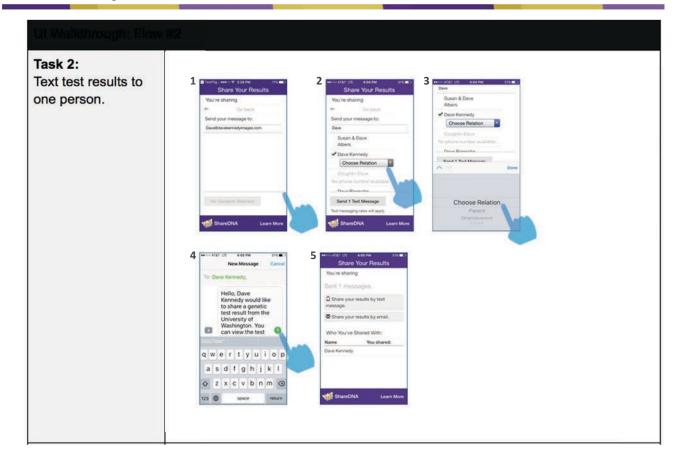
Critical Findings - Task 1



"That's three times its asked me for my email address."



Usability Test - Task 2





User Feedback - Task 2

IRB Cohort

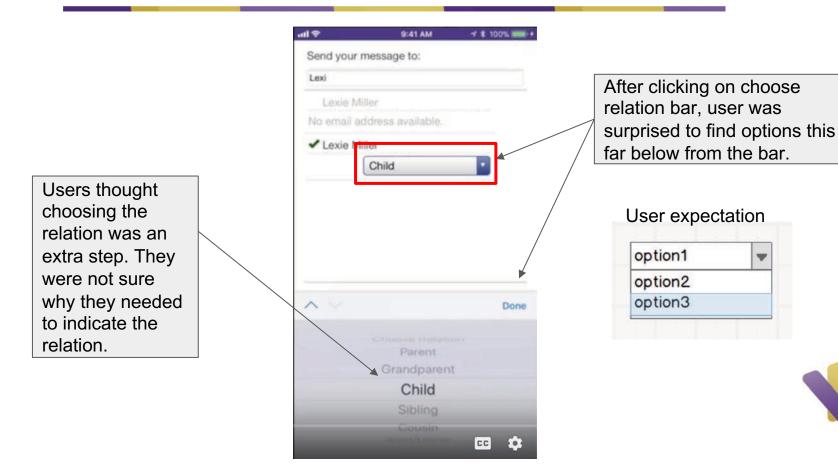
- "The box is not responding... It's not doing a drop down, which I expect."
- "That drop down box was really confusing."

General Population

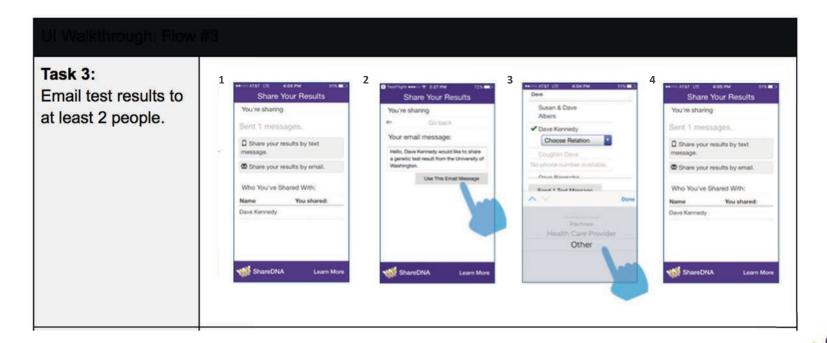
- "I love the integration with contacts"
- "Why is app asking me about the relation? I don't care what the relationship is....it seems like an extra step."
- "Can I only share with those related to me?"



Critical Issues & Recommendations - Task 2



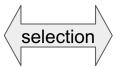
Usability Test - Task 3



User Feedback - Task 3

IRB Cohort

- "The way I'm used to is like email: [Name] comma or colon [Name] comma or colon, etc"
- "When you hit the arrow you expect something to happen right then. You really have to look down because it actually came up a bit further down."
- "I would expect there to be Send Report."



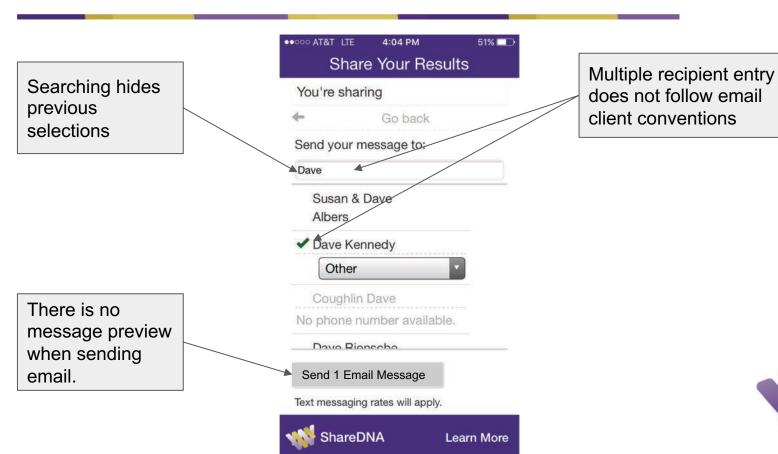
General Population

- "I didn't see if there was an option to send to two people at once."
 - "I don't understand why I'm seeing a long list of names with no email address available."

"I expected it to open up Mail and show me the email and then have me hit send."

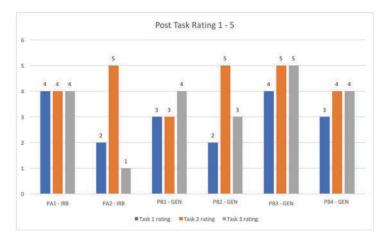


Critical Issues & Recommendations - Task 3



Usability Test Findings

Tasks	PA1 - IRB	PA2 - IRB	PB1 - GEN	PB2 - GEN	PB3 - GEN	PB4 - GEN	Success Rate
Download and log into app	Y	Y	Y	Y	Y	Y	6 out of 6
Send results via text message	Y	Y	Y	Y	Y	Y	6 out of 6
Send results via email to two people	Y	N	Y	Y	Y	Y	5 out of 6





PA = IRB approved cohort PB = General Population cohort

Usability Test Results Summary

- Almost all users were able to complete tasks
- Users expected a confirmation screen before sending messages
- Some users didn't discover ability to send multiple messages at once,
 but didn't seem troubled by just sending two separate messages.
- Recipient selection screen caused a lot of confusion for some users.
- Registration process was bumpy for General Population cohort



Successful Aspects of Our Research

- Task selection
- Study recording setup



Aspects of Our Research We Would Change

- More participants especially in the IRB cohort
- Better explanation of study contents to IRB cohort
- Better explanation of app purpose to General Population cohort



Questions?

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