
Usability Testing for CATQuest

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Why usability?

- Reduce user frustration
 - Learn how users actually use the tool
 - Improve navigational experience based on user testing
 - Create an intuitive interface
 - Increase access to information
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Designing a Usability Plan

Forming a usability team

- 5 members
 - 3 "core" members who administered tests: principal investigator, facilitator, note-taker
 - 2 members to provide "fresh eyes" to the analysis and the conclusions/recommendations
 - All members participated in planning the study
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Creating a Usability Plan

Research similar studies with a "diagnostic" approach:

- Tulane University
- Flinders University
- James Madison

Enhanced guidance:

- Usability.gov and Nielsen
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Creating a Usability Plan

Authoring the test:

- Designed to perform tasks most users will perform most of the time
 - No trick questions or "traps"
 - Progress from easier look-up tasks to a more complicated research task
 - Introduction and exit questions to gauge opinions
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Designing a Usability Study

Planning for IRB, planning for success

- Planned testing model: Facilitator, note-taker, PI
 - Dry runs with staff/student employees
 - Recording sessions with Silverback
 - Wrote note-taker sheet and scoring sheet
 - Video and note analysis
 - Recruiting test subjects
 - Conclusions/recommendations
 - Confidentiality of subjects
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Recruiting test subjects

- Desired a "snapshot" of the UVM community
 - Aimed for 5-7 subjects
 - Offered \$25 gift card incentive
 - Recruited in front of main library, medical library and in the student center
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Administering the test...

setting the tone

- Test was conducted in a private space
 - Anonymous/private
- PI explained to them the reason for our test
 - They weren't being tested, the tool was
- Gummy bears



Administering the test...logistics

- MacBook laptop
 - Silverback software
 - Screen capture with video recording of the subject
 - Cheaper and easier to use
 - Only available for Macs
 - Placement
 - Participant seated at laptop, facilitator to their left, note taker behind, and PI in the background
 - Cue cards
 - Questions on one side, with question numbers on the other side
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Administering the test

- Facilitator ran the test
 - Spoke clearly and calmly; friendly demeanor
 - Gave question, allowed the participant to ask clarifying questions
 - Provided help to keep the test moving, but avoided directing them
 - Running the test
 - Participants were given as much time as needed to complete tasks (even though we were timing them)
 - Participants were only cut off if a task was taking far too long to complete
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Task Examples

Easy!

Task 1:

Does the library have the book, "A brief history of time: from the big bang to black holes" by Stephen Hawking?

Surprisingly hard!

Task 3:

Can you find the article "How to get our democracy back" by Lawrence Lessig?

If so, can you add the articles to your e-Shelf?

Can you open the article in a new window?

Analysis

- Created video mash-ups for each task
 - Silverback creates .mov files
 - Used iMovie to edit
 - Team of 3 reviewed the task mash-ups
 - Viewed each task
 - Used scoring rubric to capture quantitative and qualitative data
 - Discussed trends and disagreements
 - Recorded comments verbatim when pertinent
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Subject # _____

Scorer Initials _____

Task _____



# of mouse clicks				
Did the subject express any confusion or frustration?	<i>Verbal</i>		<i>Non-Verbal</i>	
	YES	NO	YES	NO
Did the subject need clarification of the task?	YES		NO	
Did the subject use:	Basic Search		Advanced Search	
Did the subject refine with either:	Side Facets		Top Level Facets	
Time to complete the task				

Task completed?	Completed easily	Completed with Difficulty/Needed Help	Not completed
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Notes:

Analysis

- Data was compiled in Excel
 - Collected all raw data from scoring sheets
 - Cumulative data was used to make charts to illustrate trends
 - Descriptive analysis was created based on the raw data
 - Drafted synthesized analysis for each task based on compiled data
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Drafting conclusions & recommendations

- "Group-think" session to draw out themes and conclusions
 - Broken down into categories
 - Categories outlined and fleshed out into narrative discussion
 - Conclusions/recommendations were drawn from narrative discussion
 - Wrote a report
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Conclusions

- Targeted specific areas for more usability testing
 - Labeling, color, and layout
 - Tools such as e-shelf and My Account
 - Targeted specific points that need instruction
 - Tools such as e-shelf and My Account
 - Learned a lot about the tool, but more about our users
 - Users adapt to the tool quickly
 - “First result syndrome”
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Recommendations

- Immediate
 - Encourage all library staff and faculty to use CATQuest.
 - Encourage library faculty and staff to teach CATQuest in classes and at public service points.
 - Within the next year
 - Conduct small targeted usability testing on various design aspects.
 - Implement most effective design changes.
 - Within the next five years
 - Continue ongoing maintenance and testing.
 - Add new collections as needed to enhance
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Thanks!

Any questions?

