



A DIGITAL ESCAPE ROOM WHODUNIT ABOUT DIGITAL ACCESSIBILITY

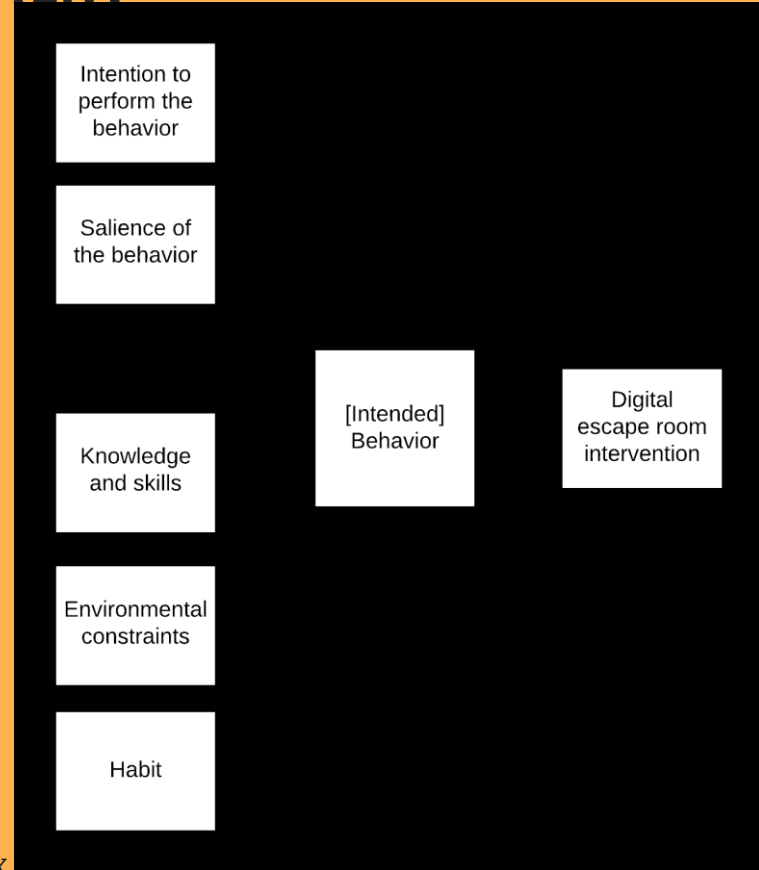


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PROBLEM STATEMENT

- Creating accessible content requires:
 - High intentions
 - Knowledge and skills
- Knowledge and performance gaps are addressed:
 - Resources
 - Training
- Integrated Behavior Model:
 - Behavior change
 - ***An individual's intentions to perform the behavior (developing accessible materials) are the most critical determinant of the behavior***





RESEARCH AIMS

- Influence intentions and saliency
- Provoke self-reflection on obstacles
- Close gaps



>>>> **METHODOLOGY****PHASE ONE**

- Usability testing (Zoom)
 - 3 conveniently selected participants
 - Structured and Unstructured Observations
 - Debriefing

**PHASE TWO**

- Semi-structured interviews (Zoom)
 - 12 purposively selected – snowball technique
 - Online teaching experience

RESEARCH QUESTIONS

01

Phase One

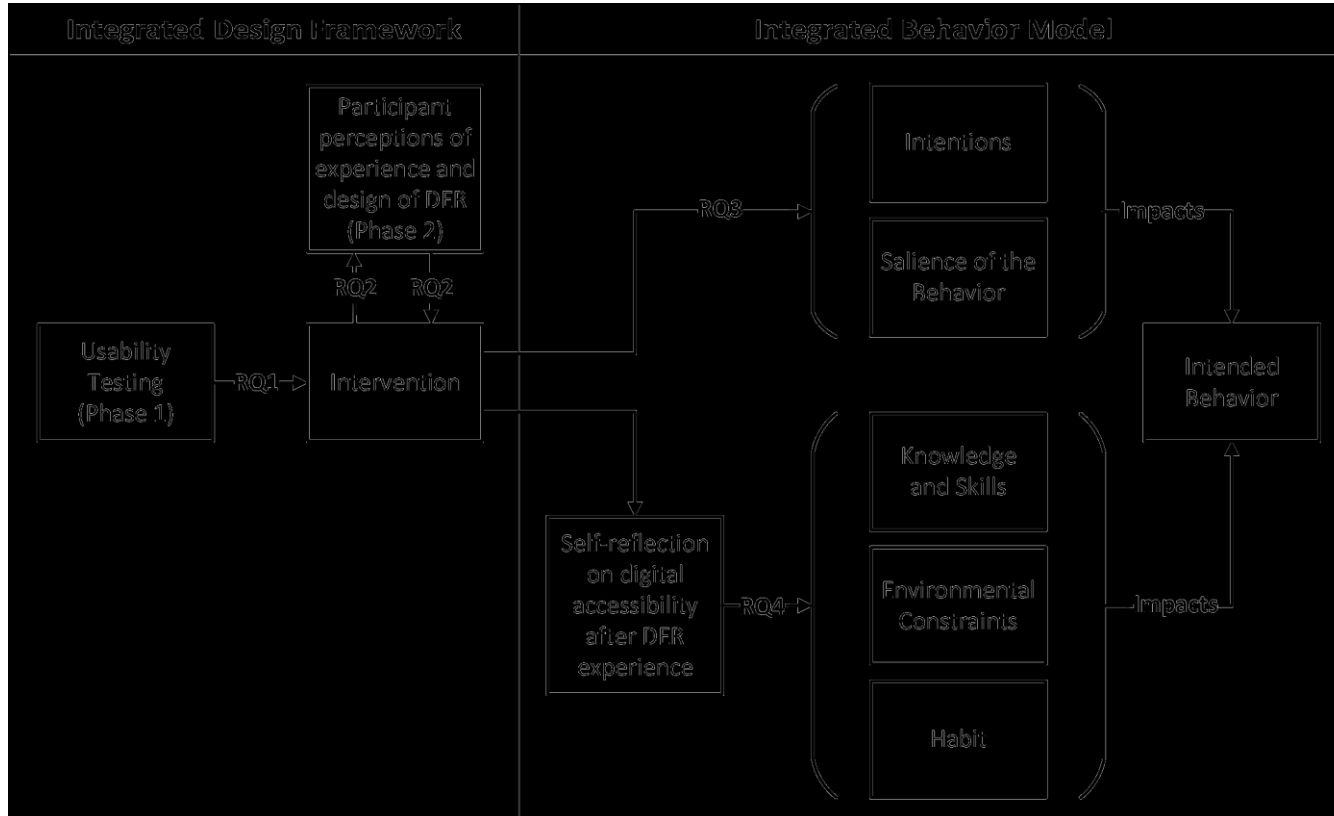
- **RQ1.** After completing usability testing, what are the major issues that require correction before the initial implementation of the Digital Escape Room in phase one, if any? **(Integrated Design Framework)**

02

Phase Two

- **RQ2.** What are the faculty perceptions of their Digital Escape Room experience and the associated design elements? **(Integrated Design Framework)**
- **RQ3.** How does the Digital Escape Room experience potentially influence faculty intentions and salience of their behavior towards developing accessible content? **(Integrated Behavior Model)**
- **RQ4.** How does the Digital Escape Room experience potentially influence faculty to self-reflect on their habits, environmental constraints, and necessary knowledge and skills for developing accessible content? **(Integrated Behavior Model)**

CONCEPTUAL and THEORETICAL FRAMEWORK



DIGITAL ESCAPE ROOM

What is a digital escape room?

Intervention description:

- The user is the investigator
- Investigating a murder
- Visit each member/suspect
- The witness statements/clues highlight online learning obstacles
- Solve all the clues to determine the murderer and make an arrest





SUSPECTS AND WCAG GUIDELINES

Suspect	Guidelines (Success Criterion)
Capt. Closed	1.2 Time-based Media (1.2.2 Captions)
Bea Raille	1.2 Time-based Media (1.2.5 Audio description (Prerecorded))
Hugh Hunter	1.4 Distinguishable (1.4.1 Use of color)
Al Tex	1.1 Text Alternatives (1.1.1 Non-text content)
Tabitha Order	2.1 Keyboard accessible (2.1.1 Keyboard)
Linkon Clear	2.4 Navigable (2.4.4 Link purpose (In context))



DEMONSTRATION





FINDINGS: THEMES



**Perceived Increase of
Importance of Digital
Accessibility**



**Perceived Increase In
Desires To Develop
Accessible Content**



Shame and Embarrassment



Frustration and Enlightenment



PERCEIVED INCREASE OF IMPORTANCE OF DIGITAL ACCESSIBILITY

“Well I'd have to say it was pretty high coming in, but I think this reinforced.”

“Yeah. I probably was at a 97... but you definitely maxed me out here.”



“I didn't it didn't necessarily change my perception, but it was like a good reminder kind of keeping that in the forefront”



PERCEIVED INCREASE IN DESIRES TO DEVELOP ACCESSIBLE CONTENT

“I’m going to be doing some more research on how to make sure things are screen reader accessible, because I knew a little bit about accessibility. But I think that I have not maybe been as diligent as I should be and then I want to go back and revisit my use of content as well.”



SHAME AND EMBARRASSMENT



“[I] felt like almost ashamed, because I thought I knew more than I did.”

“But you know I also felt like a little bit embarrassed because I'm just like our other other people figure this out faster than me the matter with me, you know, so you have kind of shame element.”





FRUSTRATION AND ENLIGHTENMENT

“Extreme frustration and extreme annoyance”

“Fun, frustrating, enlightening”

“Engaging, creative, enlightening”

“I guess, I would feel like you know- frustr
and then excited that I solved something”





THANKS

Does anyone have any questions?



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