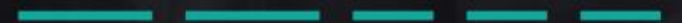


MEASURING THE EFFICIENCY, EFFECTIVENESS, AND EXPERIENCE OF TEACHING-LEARNING FAMILY CONSTRUCTS FRAMEWORK

BY GUARIONEX SALIVIA, CYRUS AZARBOD, COLLEEN ROYLE, ANKIT GOEL,
FLINT MILLION, MEGAN BENING

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TECHNOLOGIES : FAMILY CONSTRUCT NETWORK

PURPOSE: CREATE, DISCUSS AND ENHANCE FAMILY CONSTRUCTS

Content Poll

Constructs:

Title REQUIRED











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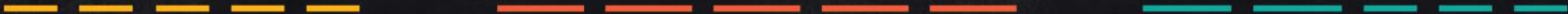
Type tags separated by commas.

Definition REQUIRED

A theoretical definition that is clearly written and distinctive from other constructs.

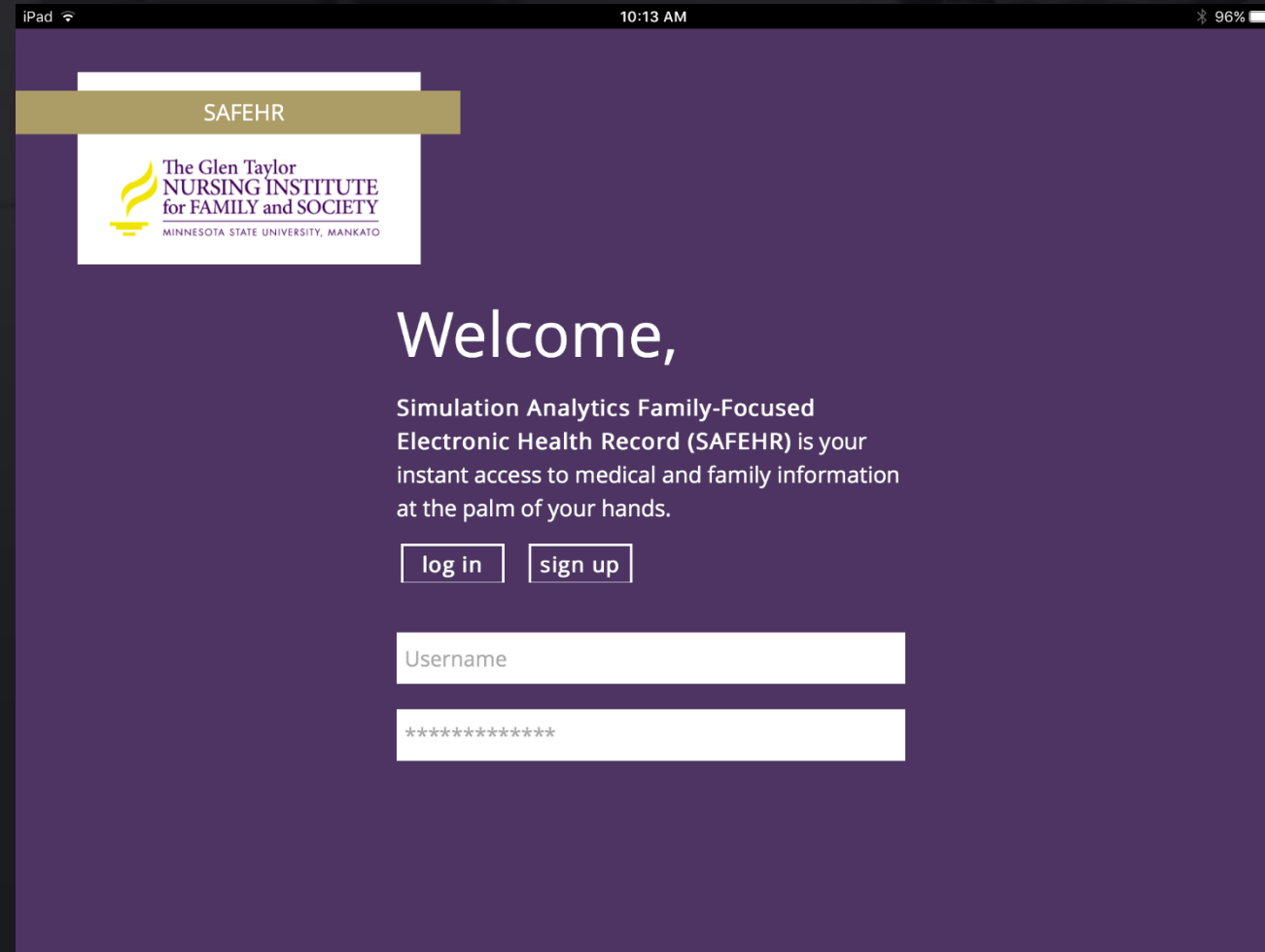
Context REQUIRED

B **I** **U** **S**          **A** 



TECHNOLOGIES : SAFEHR

PURPOSE: MANAGE ELECTRONIC HEALTH RECORD



RESEARCH QUESTIONS

SAFEHR

- WHAT IS THE PERCEIVED USABILITY, USER EXPERIENCE AND ATTRACTIVENESS OF SAFEHR'S GENOGRAM AND FAMILY CONSTRUCTS FUNCTIONALITY?

FAMILY CONSTRUCT NETWORK

- EVALUATION OF THE EFFECTIVENESS AND EFFICIENCY OF THE MAIN FUNCTIONS IN THE FAMILY CONSTRUCTS NETWORK.

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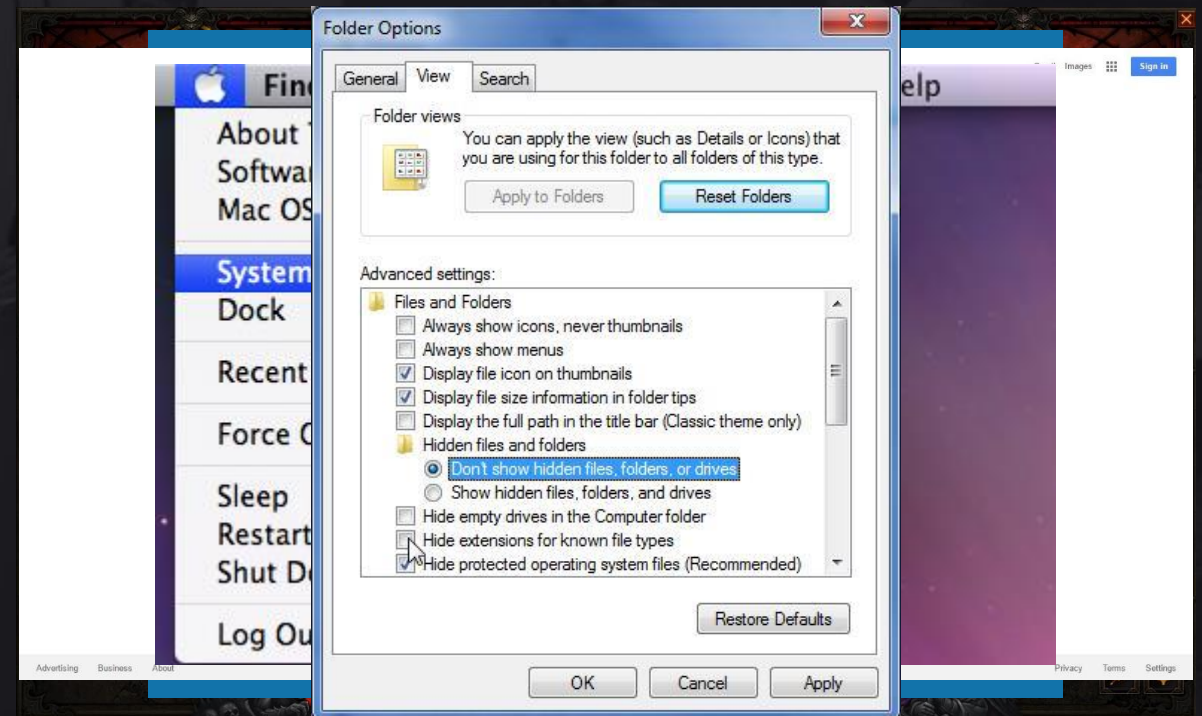
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WHAT IS USABILITY?

“THE EXTENT TO WHICH A PRODUCT CAN BE USED BY SPECIFIED USERS TO ACHIEVE SPECIFIED GOALS WITH EFFECTIVENESS, EFFICIENCY AND SATISFACTION IN A SPECIFIED CONTEXT OF USE.” [ISO DEFINITION (9241-11)]

“THE EASE WITH WHICH A USER CAN LEARN TO OPERATE, PREPARE INPUTS FOR, AND INTERPRET OUTPUTS OF A SYSTEM OR COMPONENT.” [IEEE STD.610.12-1990]



WHAT IS USER EXPERIENCE?

USER EXPERIENCE (UX) FOCUSES ON HAVING A DEEP UNDERSTANDING OF USERS, WHAT THEY NEED, WHAT THEY VALUE, THEIR ABILITIES, AND ALSO THEIR LIMITATIONS.

Desirable aspects

helpful

enjoyable

motivating

stimulating

supporting

Undesirable aspects

unpleasant

annoying

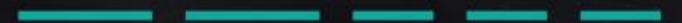
childish

frustrating

verbose

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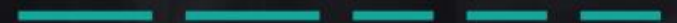


USABILITY AND LEARNING

- ACCORDING TO SANDARS (2010) “...IT IS NOT THE CONTENT THAT USUALLY DETERMINES EFFECTIVE E-LEARNING BUT HOW THE CONTENT IS DELIVERED ...” (P. 6) “...THERE WILL BE A SLOW LEARNING CURVE TOWARDS ACHIEVING EFFECTIVENESS UNLESS THE USABILITY ASPECTS ARE CONSIDERED.” (P. 8)
- ACCORDING TO GRANIC AND CUKUSIC (2011) "IF THE INTERFACE IS NOT TRANSPARENT AND EASY TO USE, THE LEARNERS/STUDENTS CONCENTRATE ON INTERACTION ASPECTS AND NOT ON ACQUIRING CONTENT" (P. 107)
- BORSCI, FEDERICI AND LAURIOLA (2009) FOUND A CORRELATION BETWEEN PERCEIVED USABILITY AND PERCEIVED LEARNABILITY. (P. 196)

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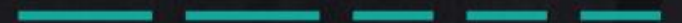


METHODOLOGIES – SAFEHR STUDY

- TRADITIONAL USABILITY TEST WITH 25 PARTICIPANTS (JUNIORS/SENIORS; IN-PROGRESS)
- CREATE A GENOGRAM; IDENTIFY FAMILY CONSTRUCTS AND NURSING ACTIONS FROM EVOLVING SCENARIOS
- PARTICIPANTS COMPLETE A QUESTIONNAIRE SIMILAR TO THE ONE USED BY GROTH AND HASLWANTER (2015)
- QUESTIONNAIRE AND OBSERVATIONS FROM ALL PHASES ARE USED TO DETERMINE INTUITIVENESS, ATTRACTIVENESS AND USABILITY OF THE APPLICATION

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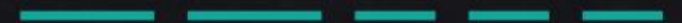


METHODOLOGIES : FAMILY CONSTRUCT NETWORK STUDY

- FIVE PARTICIPANTS IN A HEURISTICS EVALUATION FOLLOWING THE GUIDELINES BY NIELSEN (1995)
- TO GATHER THE EXPERT OPINION ON THE OVERALL USABILITY OF THE WEB-APPLICATION.
- HEURISTICS INCLUDE: VISIBILITY, CONSISTENCY, ERROR PREVENTION, FLEXIBILITY AND AESTHETIC DESIGN

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PRELIMINARY RESULTS – SAFEHR STUDY

- SOME PARTICIPANTS BECAME QUICKLY ACCUSTOMED TO THE APPLICATION, WERE VISIBLY EXCITED AND RELAXED, AND HAD OVERWHELMINGLY POSITIVE COMMENTS AFTER COMPLETING THE STUDY.
- SOME PARTICIPANTS FOUND THE APPLICATION CHALLENGING BUT WERE STILL OPTIMISTIC ABOUT IT.
- ALL PARTICIPANTS STRONGLY AGREE THEY WOULD LIKE TO USE THIS SYSTEM FREQUENTLY.
- ALL PARTICIPANTS SCORED BETWEEN 8 AND 10 THAT THEY WOULD RECOMMEND THE APP TO A FRIEND (NET PROMOTER SCORE).
- ALL PARTICIPANTS HAVE INDICATED A VERY STRONG DESIRE TO HAVE ACCESS TO THE APPLICATION FOR THEIR COURSEWORK.

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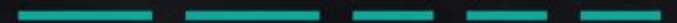
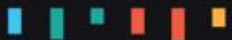
RESULTS – FAMILY CONSTRUCT NETWORK STUDY

43 usability problems were found

- HOMEPAGE WAS TOO WORDY
- 'SUBMIT A NEW CONSTRUCT' BUTTON WAS SMALL AND NOT EASILY VISIBLE
- AN EXAMPLE WAS NEEDED FOR THE USERS TO BASE THEIR CONSTRUCT PROPOSALS OF
- THE FORUM LABELS WERE NOT EXPLAINED PROPERLY
- TEXT BOXES SIZE IN THE FORUM WAS NOT APPROPRIATE
- FONT SIZE WAS NOT CONSISTENCE

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Welcome!

This forum is being constructed to develop and share knowledge related to families and nursing in the local, regional, and global arena.

The following video provides a brief introduction to the website.



Submit a New Construct

Check Out an Example



In association with the Glen Taylor Nursing Institute



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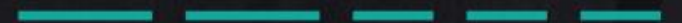


CONCLUSIONS

- USABILITY/UX TESTING LEAD TO POTENTIALLY HIGH LEARNABILITY
- WE STUDIED TWO TECHNOLOGIES TO HELP STUDENTS LEARN ABOUT FAMILY CONSTRUCTS
- RESULTS FROM HEURISTIC EVALUATION HELPED IMPROVED DESIGN AND PROVIDE BETTER EXPERIENCE FOR USERS OF THE FAMILY CONSTRUCTS NETWORK
- PRELIMINARY POSITIVE RESULTS FROM SAFEHR USABILITY/UX STUDY

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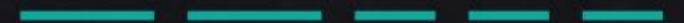


FUTURE WORK

- PILOT SAFEHR APP IN THE CLASSROOM
- CORRELATE COURSE LEARNING OUTCOMES WITH SAFEHR USAGE
- STUDY AND ENHANCE OTHER SAFEHR APP FEATURES SUCH AS ECOMAPS AND SIMULATIONS
- STUDY STUDENT PERFORMANCE EFFICIENCY AS A RESULT OF USING SAFEHR
- STUDY FACULTY EVALUATION EFFICIENCY AS A RESULT OF USING SAFEHR

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