Section A - Study Background

* Required

۱.	What stage of engineering are you in?
	Mark only one oval.
	a. Part I
	b. Part II
	c. Part III
	d. Part IV
	e. Finished
	f. N/A
2.	If you study engineering, which specialisation are you?
3.	4. What is your previous experience with Augmented Reality?
	Mark only one oval.
	a. No experience
	b. Minimal experience
	c. Moderate experience
	d. Substantial experience

4.	What is your previous experience with the Architecture, Engineering and Construction industries?
	Mark only one oval.
	a. No experience
	b. Minimal experience
	c. Moderate experience
	d. Substantial experience
5.	If you have experience with either, please briefly explain it below:
Se	ection B - Experiment Questions
6.	Paper or AR First
	Check all that apply.
	Paper AR

Task 1

You are tasked with checking the design of a room within the building model. The room must conform to certain criteria, listed below. Take some time to find all the mistakes in the model (i.e. where the model does not conform to the criteria), and all of the specific criteria that have been implemented correctly in the model. Your objective is to be accurate and fast, with a maximum time of 5 minutes. Each time you identify a mistake or a correct feature, note it down and indicate your certainty out of 10.

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The criteria are shown below:

General Criteria:

- Objects should not collide with each other in a physically impossible manner
- Objects should be in a normal position and orientation identify anything that seems strange

Specific Criteria:

- There should be 10 or more objects to sit on (one couch is still one object)
- There should be the same number of windows on each of the long faces of the room
- The room should be lit by 10 lights

There should only be 3 types of seating

- There should be two double-doors leading to the balcony
- Windows on the long edges of the room should approximately stretch from the floor to the ceiling (disregarding the frame)
- Every chair should be oriented towards at least one window, disregarding furniture between the chair and window
- Task 1 continued Second method *

 The same things as the previous question, but this time using the other device or method. You are looking for additional errors that were not found in the first method.

9. Task 2

8.

a) The windows on the long edges of the room currently use a certain type of glass,which has recently been found to be faulty. Please annotate the paper to indicate this, or highlight the windows red on the AR model. b) The windows now need to be removed from the model to be replaced by new windows. Annotate the paper to indicate this, or remove them from the AR model.

10.	Task 3 *
	Assume that the kitchen design is for a new kitchen in your new house. Briefly describe to us what aspects you like, and what aspects you don't like.
Se	ction C - Post Experiment Questions
Augr	mented Reality
11.	1. How easy would the AR model be for a non-engineer to understand?
	Mark only one oval.
	1 2 3 4 5
	Very Difficult Very Easy
12.	2. How easy was it to visualise the exterior of the rooms in the AR Model?
	Mark only one oval.
	1 2 3 4 5
	Very Difficult Very Easy

(e.g.

13.	3. How easy was it to visualise the contents of the rooms in the AR mode tables, chairs, windows)									
	Mark only one	oval.								
		1	2	3	4	5				
	Very Difficult						Very Easy			
4.	4. How easy kitchen while					at you l	iked and d	idn't like abc	out	
	Mark only one	oval.								
		1	2	3	4	5				
	Very Difficult						Very Easy			
5.	5. How easy	would	the pa _l	per mo	odel be	for a r	non-engine	er to unders	sta	
	Mark only one	oval.								
		1	2	3	4	5				
	Very Difficult						Very Easy			
16.	6. How easy	was it 1	to visua	alise th	e exte	rior of	rooms in t	ne paper mo	de	
	Mark only one	oval.								
		1	2	3	4	5				

17.	7. How easy (e.g.tables, c				e conte	ents of	rooms in	the paper m	odel?
	Mark only one	oval.							
		1	2	3	4	5			
	Very Difficult						Very Easy	_	
18.	8. How easy witchen while	using				it you l	iked and c	didn't like ab	out the
		1	2	3	4	5			
	Very Difficult						Very Easy	-	
Gene	eral								
19.	9. How easy	was it t	o inter	act wit	th the A	AR mod	del? e.g. ro	otating, plac	ing
	Mark only one	oval.							
		1	2	3	4	5			
	Very Difficult						Very Easy	-	
20.	10. Which sys	stem he	eld you	ır atter	ntion m	ore?			
	Mark only one	oval.							
			1	2	3	4	5		
	Paper Signific	antly (AR S	Significantly	

Mark only one ov								
		1	2	3	4	5		
Paper Significar	ntly (AR Significantly	
12. If this were	your i	new ho	ouse,	would	you fe	el mor	e affinity for it wh	en vie
it in AR or on pa	aper?	•						
Mark only one ov	al.							
		1	2	3	4	5		
Paper Significar	ntly (AR Significantly	
							ring statements	
e indicate your 14. The AR tuto Mark only one ov	rial p						ring statements	
14. The AR tuto	rial p			well fo	or use (of the	ring statements	
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14. The AR tuto Mark only one ov Strongly Agree	orial posts of the A	repare 2 AR syst	ad me	well fo	or use o	of the	ring statements	al woı
14. The AR tuto Mark only one ov Strongly Agree 15. While using	orial posts of the Ana wh	repare 2 AR syst	ad me	well fo	or use o	of the	ring statements system. ongly Disagree	al woı
14. The AR tuto Mark only one ov Strongly Agree 15. While using (e.g.to write on	orial posts of the Ana wh	repare 2 AR syst	ad me	well fo	ned ab	of the	ring statements system. ongly Disagree	al wo

25.	Any thing else you would like to add about your experience, the app, or the research.

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