## Table 1 Schedule of activities

Activity		Week/Month																		
-		Month 1			Month 2				Month 3			Month 4				Month 5				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Study of																				
Literature																				
Collection																				
Dataset																				
Analisi																				
Data																				
Report																				
Elaboration																				

## Table 2. 1 Related Research

	Paper 1	Paper 2	Paper 3	Paper 4			
Research Title	User Experience Analysis of Paperless Health Center Information System Application using Usability Testing Method and User Experience Questionnaire (UEQ)	User Experience Evaluation at Edmodo and Google Classroom Using Technique for User Experience Evaluation in E- Learning (TUXEL) (Study at SMKN 5 Malang)	User Experience Evaluation of PUBG MOBILE Games Using Cognitive Walkthrough Method	User Experience Analysis on E- Village Applications Using Honeycomb UX Model			
Year of Research	2019	2019	2019	2021			
Research Object	Puskesmas Tarik Kabupaten Sidoarjo	SMKN 5 MALANG	Game PUBG MOBILE	E-Kelurahan Padang			
Research Methods	Usability Testing and User Experience Questionnaire (UEQ) methods.	The method used by the author to evaluate user experience e-learning is technique for user eXperience evaluation in eLearning (TUXEL).	The study was conducted by the authors using the Cognitive Walkthrough method against respondents who were divided into two groups, namely 3 respondents who had never played PUBG MOBILE games and 3 respondents who often played PUBG MOBILE games and often played games of similar genres.	The methods used is Honeycomb			
Data Collection Techniques	Literature studies and the dissemination of questionnaires to respondents	Literature studies and the dissemination of questionnaires to respondents.	Scenario and dissemination of questionnaires	Literature studies, interviews and questionnaire dissemination.			
User Population	Paperless Health Center Information System Users	Students of SMKN 5 MALANG	PUBG MOBILE Game Users	People of Padang city			
Sampling Techniques	Random Sampling Techniques	Random Sampling Techniques	Systematic Sampling	Convenience Sampling			
Number of samples	25 Users	8 Respondents	6 respondents consisting of 3 respondents have never played PUBG MOBILE game and 3 people who often play PUBG MOBILE game	111 respondents from 10 sub- districts in Padang city			
Research Results	The results of simple application user experience analysis using usability testing methods were	The results of this study on the aspect of general usability, Edmodo found 9 problems and Google	The results of the study concluded that evaluations in PUBG MOBILE games showed that problems	d The results of this study showed that E the average value of user experience in e-village applications as a whole			

conducted on 3 respondents who	Classroom 12 problems. In the	occurred a lot because of the	is 4.19, which means that e-village
produced effectiveness values of	pedagogical aspect of usability,	difficult-to-understand display (text	applications have been able to meet
100%, efficiency of 100% and	Edmodo found 13 problems, and	and icon) on the task when users	the expectations of their users, but
satisfaction with System Usability	Google Classroom 15 problems. In	learn about weapons in the game.	still need improvements to be better.
Scale (SUS) 68.12. While the test	the user experience aspect, Edmodo	However, the problem that arises is	Of the seven VAARIABEL UX
with User Experience Quistionnaire	indicates the following code: (1)	a mild problem and does not affect	Honeycomb, it can be sorted
(UEQ) was conducted on 25	supports; (2) confusing; (3)	the main function in the game	variables that have the highest to
respondents who produced an	Complicated. As for Google	(Akbar, Az-Zahra, & Brata, 2019).	lowest values as follows: usable
average score of 1,137 in	Classroom, indicates the following		variables have the highest average
perspicuity, dependability,	code: (1) practical; (2) Fun; (3) not		value, which is 4.29, followed by
attractiveness, efficiency,	meeting expectations; (4)		desirable variables (4.25), valuable
stimulation, and novelty (Febrianto,	Confusing. The conclusion that can		and findable (4.20), credible and
Putra, & Perdanakusuma, 2019).	be formulated is that Edmodo is		useful (4.14), while accesible
	suitable for learning processes that		variables have the lowest average
	use e-learning fully, while Google		value, which is 4.09.
	Classroom is more suitable to be		Invalid source specified.
	used as a support / complement to		-
	learning (Nurhayati, Az-Zahra, &		
	Herlambang, 2019).		
	<u> </u>		

## Table 2.2 Comparison of Methods

	Assessment Aspects	Difference with UEQ
Honeycomb	accessible, credible, desireable, findable, usable, useful, dan valuable	There are some aspects of assessment that do not exist in UEQ
		such as, credible, findable, valueable. Honeycomb method is
		done by analyzing proposed value by analyzing the vision,
		mission, slogan, web official and advertising on an e-commerce.
		The results of the proposed values analysis are grouped by source
		and validated by experts.
Heuristic	There are 15 principles of assessment in Heuristic Evaluation, Visibility	Heuristic evaluation is done using the help of an expert evaluator
Evaluation	of System Status, Match Between System and The Real Word, Error	to find usability problems, evaluators will try the application first
Method	Recovery and Exiting, Consistency and Standards, Error Prevention,	then record the problem, give suggestions for improvement, then
	Navigation Support, Aesthethic, Help , Documentation, Interactvity,	give severity rating for each problem found. This method
	Message Design, Learning Design, Media Intergration, Instructional	emphasizes the assessment of the usability of the system.
	Assessment, Resource, Feedback	
meCUE	Product characteristics (usefulness, usability, visual aesthetics, status,	In addition to some aspects of assessment, there are not many
Questionnaire	commitment), user emotions (positive and negative), consequences	differences between this method and UEQ, both of which use
		questionnaires in the testing process.

	(product loyalty and intention to use), and the latter is the overall	
	assessment of the product.	
Enhanced	This method focuses on the ease of users in learning a system or	The enhanced cognitive walkthrough method is a usability
Cognitive	application which is also known as the learnability aspect.	evaluation method based on user experience. This method
Walkthrough		emphasizes more on the usability aspect. UEQ measures UX not
_		only from the ease of using the system but also measures from
		aspects related to user emotions.

N	<b>No</b>	Scale	Transformation Value
1		7	+3
2		6	+2
3		5	+1
4	-	4	0
5		3	-1
6	5	2	-2
7	1	1	-3

Table 3. 1 Scale and Value of UEQ Transformation

Table 4.	1 Re	spondent's	response
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N	Items																									
NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
1	4	5	2	2	5	4	6	5	1	6	5	1	6	5	6	6	5	4	2	3	6	4	2	4	4	5
2	3	3	4	2	2	5	5	4	3	2	7	1	7	7	3	6	2	2	4	4	2	5	2	1	6	4
3	4	3	6	6	3	4	4	4	5	3	4	4	4	4	4	4	4	4	4	4	3	4	3	4	4	4
4	5	3	3	3	3	4	4	4	4	3	4	3	5	5	5	5	3	1	1	5	3	5	1	1	1	5
5	6	4	1	2	3	4	6	5	1	1	6	2	3	4	4	5	1	1	2	5	1	4	5	2	1	1
6	4	3	2	2	2	6	5	6	3	2	6	2	5	5	6	5	2	2	1	5	2	5	1	1	1	1
7	4	5	3	2	3	5	4	5	2	1	5	3	6	5	2	6	2	2	1	5	1	5	2	3	1	1
8	4	3	2	1	1	5	5	5	1	2	5	2	6	6	5	5	1	1	1	6	1	4	1	2	1	2
9	6	6	2	2	2	6	6	6	1	2	5	2	6	6	2	4	2	2	1	6	2	4	3	2	2	2
10	5	6	2	2	2	6	5	5	2	2	5	2	5	6	2	6	2	2	1	6	1	5	1	1	1	1
11	4	5	2	2	3	6	5	6	2	3	3	2	3	6	6	5	2	2	1	5	4	4	2	2	1	1
12	5	5	1	2	3	6	6	6	2	2	2	2	6	6	6	6	2	2	1	5	2	4	3	2	1	1
13	6	5	2	2	2	5	5	5	3	3	4	3	5	5	2	6	1	1	1	6	1	6	2	1	1	1
14	6	5	1	1	1	6	6	6	2	2	1	1	6	6	5	5	2	3	1	6	2	6	2	2	2	3
15	5	3	3	1	2	6	5	6	2	2	2	2	6	6	2	6	2	2	2	4	1	6	2	2	2	3
16	5	3	3	1	3	5	5	6	2	2	2	2	6	6	2	5	3	3	2	3	2	5	2	2	2	2
17	5	5	2	3	2	5	5	5	2	2	5	2	6	5	5	5	2	1	1	5	1	3	1	1	1	1
18	4	4	3	3	3	6	5	6	2	2	6	2	6	6	2	6	2	2	1	5	1	6	2	1	1	1
19	5	5	2	2	2	6	6	6	1	1	6	1	6	6	2	6	1	1	1	4	1	5	1	1	1	1
20	5	6	2	1	1	1	7	7	1	1	7	1	7	7	1	7	1	1	1	4	1	7	1	1	1	1
21	6	4	2	2	3	6	6	6	2	1	1	1	6	6	1	6	2	1	1	3	2	4	1	1	1	1
22	5	6	1	1	1	7	6	6	1	1	6	1	6	6	6	6	1	1	1	3	1	3	2	1	1	1
23	6	5	1	1	1	6	6	6	1	1	7	1	7	7	1	6	1	1	1	4	1	4	3	1	1	1
24	5	4	1	3	2	3	5	6	1	1	7	1	7	5	5	4	1	1	1	5	1	6	1	1	1	1
25	5	6	1	2	2	5	5	6	1	1	6	1	5	5	4	4	3	2	1	6	2	5	2	2	1	1
26	5	5	2	2	2	6	6	6	2	2	6	2	6	7	1	7	2	1	1	5	1	7	1	1	1	1
27	6	5	1	1	1	6	6	6	1	1	6	2	6	5	4	5	3	2	1	4	2	4	2	1	1	1
28	5	7	2	2	2	6	6	6	1	1	6	1	5	6	2	6	2	2	1	3	1	3	2	2	2	1
29	5	4	3	3	3	5	5	6	2	2	6	3	5	5	2	5	2	1	1	4	1	5	1	1	1	6
30	6	6	2	2	2	6	5	5	1	2	6	2	6	6	6	6	2	2	2	3	2	4	2	2	2	2

Table 4. 2 Data transformation

NT.														Items												
NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
1	0	1	2	2	-1	0	2	1	3	-2	1	3	2	1	2	2	-1	0	2	-1	-2	0	2	0	0	1
2	-1	-1	0	2	2	1	1	0	1	2	3	3	3	3	-1	2	2	2	0	0	2	1	2	3	-2	0
3	0	-1	-2	-2	1	0	0	0	-1	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
4	1	-1	1	1	1	0	0	0	0	1	0	1	1	1	1	1	1	3	3	1	1	1	3	3	3	1
5	2	0	3	2	1	0	2	1	3	3	2	2	-1	0	0	1	3	3	2	1	3	0	-1	2	3	-3
6	0	-1	2	2	2	2	1	2	1	2	2	2	1	1	2	1	2	2	3	1	2	1	3	3	3	-3
7	0	1	1	2	1	1	0	1	2	3	1	1	2	1	-2	2	2	2	3	1	3	1	2	1	3	-3
8	0	-1	2	3	3	1	1	1	3	2	1	2	2	2	1	1	3	3	3	2	3	0	3	2	3	-2
9	2	2	2	2	2	2	2	2	3	2	1	2	2	2	-2	0	2	2	3	2	2	0	1	2	2	-2
10	1	2	2	2	2	2	1	1	2	2	1	2	1	2	-2	2	2	2	3	2	3	1	3	3	3	-3
11	0	1	2	2	1	2	1	2	2	1	-1	2	-1	2	2	1	2	2	3	1	0	0	2	2	3	-3
12	1	1	3	2	1	2	2	2	2	2	-2	2	2	2	2	2	2	2	3	1	2	0	1	2	3	-3
13	2	1	2	2	2	1	1	1	1	1	0	1	1	1	-2	2	3	3	3	2	3	2	2	3	3	-3
14	2	1	3	3	3	2	2	2	2	2	-3	3	2	2	1	1	2	1	3	2	2	2	2	2	2	-1
15	1	-1	1	3	2	2	1	2	2	2	-2	2	2	2	-2	2	2	2	2	0	3	2	2	2	2	-1
16	1	-1	1	3	1	1	1	2	2	2	-2	2	2	2	-2	1	1	1	2	-1	2	1	2	2	2	-2
17	1	1	2	1	2	1	1	1	2	2	1	2	2	1	1	1	2	3	3	1	3	-1	3	3	3	-3
18	0	0	1	1	1	2	1	2	2	2	2	2	2	2	-2	2	2	2	3	1	3	2	2	3	3	-3
19	1	1	2	2	2	2	2	2	3	3	2	3	2	2	-2	2	3	3	3	0	3	1	3	3	3	-3
20	1	2	2	3	3	-3	3	3	3	3	3	3	3	3	-3	3	3	3	3	0	3	3	3	3	3	-3
21	2	0	2	2	1	2	2	2	2	3	-3	3	2	2	-3	2	2	3	3	-1	2	0	3	3	3	-3
22	1	2	3	3	3	3	2	2	3	3	2	3	2	2	2	2	3	3	3	-1	3	-1	2	3	3	-3
23	2	1	3	3	3	2	2	2	3	3	3	3	3	3	-3	2	3	3	3	0	3	0	1	3	3	-3
24	1	0	3	1	2	-1	1	2	3	3	3	3	3	1	1	0	3	3	3	1	3	2	3	3	3	-3
25	1	2	3	2	2	1	1	2	3	3	2	3	1	1	0	0	1	2	3	2	2	1	2	2	3	-3
26	1	1	2	2	2	2	2	2	2	2	2	2	2	3	-3	3	2	3	3	1	3	3	3	3	3	-3
27	2	1	3	3	3	2	2	2	3	3	2	2	2	1	0	1	1	2	3	0	2	0	2	3	3	-3
28	1	3	2	2	2	2	2	2	3	3	2	3	1	2	-2	2	2	2	3	-1	3	-1	2	2	2	-3
29	1	0	1	1	1	1	1	2	2	2	2	1	1	1	-2	1	2	3	3	0	3	1	3	3	3	2
30	2	2	2	2	2	2	1	1	3	2	2	2	2	2	2	2	2	2	2	-1	2	0	2	2	2	-2

Table 4. 3 Average scale of each respondent

Scale means per person											
Attractiveness	Perspicuity	Efficiency	Dependability	Stimulation	Novelty						
1.00	0.75	1.00	0.75	0.25	0.75						
1.33	1.50	1.00	1.25	1.50	0.25						
0.00	-0.50	0.00	0.00	0.25	-0.25						
1.67	0.50	1.25	1.00	1.00	1.00						
1.67	1.00	0.75	2.00	1.50	0.75						
1.67	1.00	1.50	2.25	1.75	0.75						
1.33	2.00	1.50	1.75	1.00	-0.25						

1.67	1.75	2.00	2.00	2.00	0.75
1.67	2.00	1.50	2.00	2.00	0.00
2.17	2.00	2.00	1.75	1.75	-0.25
1.67	0.50	1.25	1.50	1.50	0.50
2.00	1.75	1.00	1.25	1.75	1.00
2.00	1.75	1.75	1.75	1.75	-0.50
2.00	2.00	2.00	1.00	2.00	1.25
1.83	1.75	1.50	1.00	1.75	0.00
1.67	1.50	1.00	0.75	1.00	-0.25
1.83	1.75	1.25	1.75	1.75	0.50
2.00	1.50	1.75	2.25	1.50	-0.50
2.33	2.00	1.75	2.50	2.25	0.00
2.67	2.75	2.25	3.00	1.50	-0.25
2.50	1.50	1.00	1.00	2.00	-0.25
2.33	2.50	0.75	2.50	2.75	1.25
2.67	2.50	1.00	2.75	2.50	0.00
1.83	1.75	2.25	2.75	1.25	1.00
1.67	1.75	2.00	2.00	1.50	0.75
2.50	2.00	2.25	2.25	2.25	-0.50
2.00	2.00	1.25	2.00	2.25	0.75
2.00	2.25	0.75	2.25	2.00	0.00
1.67	1.25	1.50	2.25	1.50	0.75
2.00	2.00	1.00	1.75	1.75	1.00

Table 4. 4 Standard categories determine the mean

Category	Symbol	Value
Normal evaluation value		-0.8 until0.8
Positive evaluation value	<b></b>	>0.8
Negative evaluation value		<-0.8

Table 4. 5 Msl website UEQ value benchmark results

Scale	Mean	Comparisson to benchmark	Interpretation
Attractiveness	1.84	Excellent	In the range of the 10% best results
Perspicuity	1.63	Above Average	25% of results better, 50% of results worse
Efficiency	1.39	Above Average	25% of results better, 50% of results worse
Dependability	1.77	Excellent	In the range of the 10% best results
Stimulation	1.65	Good	10% of results better, 75% of results worse
Novelty	0.33	Below Average	50% of results better, 25% of results worse