

International Journal Science and Technology

IJST Vol 3 No.1 | Februari 2024 | ISSN: 2828-7223 (print), ISSN: 2828-7045 (online), Page 64-71

# ONLINE PARENT-CHILD INTERNET ADDICTION TEST SCREENING & SCORING USING GOOGLE FORM & GOOGLE SHEET

Tissa Maharani

Department of Information Technology, Gunadarma University, Indonesia

**Article History** 

Received : Feb 2024 Revised : Feb 2024 Accepted : Mar 2024 Published : Mar 2024

**Corresponding author\*:** 

tissa@staff.gunadarma.ac.id

### **Cite This Article:**

HOW TO CITE Tissa Maharani, "ONLINE PARENT-CHILD INTERNET ADDICTION TEST SCREENING & SCORING USING GOOGLE FORM & GOOGLE SHEET", IJST, vol. 3, no. 1, pp. 64–71, Mar. 2024.

### DOI:

https://doi.org/10.56127/ijst .v3i1.1447

## INTRODUCTION

Abstract: The use of gadgets, which has increased significantly due to technological developments and the post-Covid-19 pandemic, has negative effects that can lead to addiction, both in adults and children. Gadget addiction is characterized by a person's inability to separate from their gadget. Before being declared to have gadget addiction, a test must first be carried out by a psychologist. This test is called PCIAT (Parent-Child Internet Addiction Test), which is based on PIMU (Problematic Interactive Media Use) criteria, and developed based on the Internet Addiction Test that has been widely used in clinical assessment. Currently, the PCIAT is web-based but still in English, while the one that has been translated into Indonesian is still conducted by psychologists manually using paper, which becomes inefficient and ineffective when faced with a large number of people taking the test. This research aims to make PCIAT screening and scoring online using Google Form and Google Sheet, so that it can be easily used by professionals and the public massively at one time, quickly, and reduce the use of paper. The result of this research, the availability of online PCIAT created using Google Form and Google Sheet, which is easy to use massively and faster in obtaining and processing screening data, so that it is faster to provide the analysis needed by psychologists.

Keywords: PCIAT, screening, scoring, google form, google sheet.

Technological developments and the post-Covid-19 pandemic have significantly increased the use of gadgets. The Central Bureau of Statistics in the 2022 Indonesian Telecommunication Statistics catalog states that cellular phone users increased, from 65.87% in 2021 to around 67.88% in 2022. Internet users also increased from 62.10% in 2021 to 66.48% in 2022 [1]. According to the Indonesian Internet Service Providers Association (APJII), the internet penetration rate in Indonesia reached 78.19% in 2023. This means that 78.19% of Indonesia's total population is connected to the internet, with details based on community education groups as follows: (1) Postgraduate/S2/S3: 100%; (2) Bachelor/S1/D1/D2/D3: 97.61%; (3) SMA/SMK/Package C: 94.74%; (4) Junior High School/Package B: 85.42%; (5) Elementary School/Package A graduate: 67.20%; (6) Not yet graduated from elementary school: 30.16%; and (7) Not in school: 16,75% [2]. According to the We Are Social report, there are 185 million individual internet users in Indonesia as of January 2024, about 66.5% of Indonesia's total population of 278.7 million people [3]. The increase in cell phone and internet users not only has positive impacts but also negative impacts. One of them is gadget addiction.

Gadgets are electronic devices that have updates from day to day that make life more practical, so they have a great influence on human life, as well as on children [4]. Technically, gadgets refer to technological devices or services such as cell phones, computers, laptops, smart phones, internet, smart televisions, ipods, pen drives, email, Facebook, Youtube, Instagram and Twitter that are often used every day by someone, especially young people [5].

Gadget addiction is the behavior of an individual who cannot control and depend on the internet through gadgets such as smartphones, tablets, laptops, or portable gaming devices, or social media [6].

Dr. Kimberly Young, an American psychologist, paid special and serious attention to this gadget addiction until she published her research on internet addiction in 1998. According to Young, gadget addiction is the same as internet addiction, which is an individual who cannot control and depend on the use of internet-based technology [7].

Young argues that it is usually parents who first suspect that their children may have PIMU problems. PIMU (Problematic Interactive Media Use) is a behavior characterized by compulsive use, increased tolerance, and negative reactions after stopping the use of interactive media that interfere with a person's physical, mental, cognitive, and/or social functions. Therefore, Young developed the Parent-Child Internet Addiction Test (PCIAT) measurement tool to evaluate the condition of children who experience PIMU problems. PCIAT is designed to measure children's online activities from the parents' perspective, based on the Internet Addiction Test (IAT) [8], which is widely used in clinical assessment.

Currently, PCIAT has been conducted online based on web but in English. In Indonesia, it has been translated into Indonesian but the test is still done manually using paper, which makes the test inefficient and ineffective when faced with a large number of people taking the test, as well as the length of data processing of the test results.

PCIAT consists of 20 questions in the form of a closed questionnaire. According to Sugiyono (2010: 199), a questionnaire is a data collection technique by giving a set of questions or written statements to respondents to answer them. According to Arikunto (2010: 195), a closed questionnaire is a questionnaire that has provided answers so that the respondent only has to choose. Each questionnaire requires a validity and reliability test to qualify as a data collection tool [9]. PCIAT has been tested by Maharani, et al (2018) which resulted in the conclusion that IAT has a good reliability test and validity test, so it is empirically proven to be included in the science category and not pseudoscience [10], and can be used as an instrument for screening internet addiction in Indonesia [11].

In general, when a questionnaire is still in paper form, there are several disadvantages such as less interactive, limited question possibilities, using a lot of paper especially when a lot of respondents are needed, limited space and time, does not provide feedback to respondents and researchers, data collection and processing takes a long time, costs more and is less effective [12].

According to Rahardja, et al (2018), Google Form is a form facility that can be used to obtain a person's data in the form of a questionnaire or registration, which is provided by the Google platform and is easily used for free in Google Drive on condition of having a Google account [13].

Some of the advantages of using Google Forms are (1) collecting respondent data faster than using paper manually; (2) distributing questionnaires more easily and quickly via email, social media platforms or websites; (3) processing data faster, which is connected to Excel or Google Sheet [14]; (4) respondents can fill out surveys anonymously without revealing personal data; (5) free of charge; (6) other features are available besides surveys; (7) easy because there are already templates and examples [15]; (8) encourages paperless culture, no more printing forms, even tabulation of results is automatic and online [16]; and (9) data collection and presentation of individual information and summary of overall results in real time based on the internet [17].

Based on the explanation above, researchers consider it necessary to make PCIAT screening and scoring online using Google Form and Google Sheet.

# **RESEARCH METHOD**

This research is an R&D (Research & Development) study, with four stages of development, namely Define, Design, Development, and Dissemination. At each stage, researchers always conduct interviews with psychologists who focus on the problem of gadget addiction. At the define stage, researchers identified and defined the problem, namely how to develop PCIAT which was previously manual using paper to be online. Then continued with a literature study, looking for articles, journals, and similar research related to the research. At the design stage, the researcher made a PCIAT screening using Google Form. At the development stage, researchers worked with psychologists to evaluate whether the Google Form made was in accordance with PCIAT and was tested. Finally, at the dissemination stage, researchers distributed Google Forms to research subjects.

The subjects of this study were student guardians at SDIT Al Iman Bintara from grade 1 to grade 6, with a total of 516 students. This research took place from May - June 2024.

The data collection technique of this research is an interview with a psychologist to analyze the problems and needs of the Google Form, as well as a questionnaire to determine the satisfaction of using Google Form, and a Google Form trial.

## **RESULT AND DISCUSSION**

Based on interviews with psychologists at the define stage, PCIAT has been conducted by filling out questionnaires in paper form (manually). The main obstacle during doing this is converting the results of filling out the questionnaire from paper form into an Excel file, especially when there are many respondents and at one time.

Referring to the stages of R&D (Research & Development) research, the following are the results of PCIAT development and discussion.

1) The first page that appears when users access the Google Form link.



Figure 1. Home Page

2) The second page that appears after pressing the Next button on the main page.

Data Respond	en
	nda isi data berikut ini. Kerahasiaan data akan dijaga. Data ini akan ika ditampilkan pada acara Parenting.
Anak yang dimal kelas 1-6.	ksud adalah <mark>anak Ayah/Bunda yang sedang bersekolah di SDIT Al Iman d</mark> i
Pengisian Kuesi seterusnya.	oner khusus untuk 1 anak saja, tidak digabung dengan anak ke 2 dan
Jika anak Ayah/I	Bunda ada lebih dari 1 yang sedang bersekolah, silakan untuk mengisi yak jumlah anak Ayah/Bunda.
	kelas 1 Al Farabi, anak kedua di kelas 2 Alkhowarizmi, anak ketiga di rarti mengisi link kuesioner sebanyak 3x.
Note: Gadget/Gawai =	smart TV, smartphone/handphone, laptop, tablet/ipad, tv kabel
Tanggal Pengi	sian Kuesioner *
Date	
mm/dd/yyyy	19 19
Nama Lengka	p Anak *
Your answer	
Kelas Anak *	
- روم الم	ar Bin Khattab

Figure 2. Respondent Data Entry

3) The third page contains twenty (20) questions based on the PCIAT (Parent-Child Internet Addiction Test) which will appear after filling in all the questions on the second page and pressing the Next button.

Kues	ioner bagian satu ini terdiri dari 20 pertanyaan.
	an Ayah/Bunda baca perlahan tiap pertanyaan dengan hati-hati, dan berikan jawaban <b>sesuai dengan kondisi anak</b> untuk setiap pertanyaan.
Note	
3adg	et/Gawai = smart TV, smartphone/handphone, laptop, tablet/ipad, tv kabel
	erapa sering anak anda melanggar batas waktu yang anda tetapkan dalam ggunaan gadget?
	Tidak Pernah
	Jarang
	Kadang-kadang
	Sering
	Sering Sekali
	Selalu
	erapa sering anak anda mengabaikan tugas rumah tangga (misal merapikan nan) untuk lebih banyak menghabiskan waktu dengan gadget?
	Tidak Pernah

Figure 3. PCIAT Question Page

4) The fourth page contains eight (8) supporting questions created by the psychologist at the development stage. This page will appear after filling in all the questions on the third page and pressing the Next button. These eight questions have a function to support PCIAT so that it can further analyze the results of PCIAT scoring.

(ues	ioner bagian dua ini terdiri dari 8 pertanyaan.
	an Ayah/Bunda baca perlahan tiap pertanyaan dengan hati-hati, dan berikan jawaban <b>sesual dengan kondisi anak</b> untuk setiap pertanyaan.
Note	
3adg	et/Gawai = smart TV, smartphone/handphone, laptop, tablet/ipad, tv kabel
Beri	apa jam/hari anak online atau bermain gadget? *
0	< 2 jam/hari (kurang dari 2 jam/hari)
0	2 - 5 jam/hari
0	> 5 jam/hari (lebih dari 5 jam/hari)
Ара	kah anak anda sudah bermain games online? *
0	iya, sudah bermain games online
0	tidak, belum bermain games online
	i sudah bermain games online, games apa saja? (jika menjawab tidak, silakan * lengan angka 0)
	Figure 4. Supporting Question Page

5) The last page, in the form of a closing as well as to save the respondent's answer by pressing the Submit button.



Figure 5. Closing Page

Before conducting a trial to the guardians of SDIT Al Iman Bintara students, the researcher first asked psychologist to test the developed media. This test was conducted to obtain input in the form of suggestions or improvements as well as an assessment of the development of PCIAT online using Google Form.

6) From the results of the pilot test by the psychologist and evaluated, the following results were obtained.

Tabel 1. Evaluation Results									
Question	Score								
Question	Very Easy	Easy	Quite Easy	Difficult	Very Difficult				
How easy is it to use the google form?	V								
	Very Good	Good	Fair Good	Bad	Very Bad				
What is the quality of the features in the google form?	V								
	Very Fast	Fast	Fast Enough	Slow	Very Slow				
How is the performance of google form accessing data?	,	v	0						
	Very Satisfied	Satisfied	Quite Satisfied	Dissatisfied	Very Dissatisfied				
Are you satisfied with this goole form?		V							

Based on table 1, it can be seen that psychologist find it easy to conduct PCIAT test using Google Form, the quality of features in Google Form is considered very good, Google Form's performance in accessing data is considered fast compared to manually, and psychologist is satisfied with the development of PCIAT using Google Form.

From the results of the second interview after piloting the development of PCIAT using Google Forms, psychologist thought that PCIAT was quite fast to develop and easy to make. In the implementation of the trial, psychologist thought that the link was easy to access and could be done anywhere and anytime, easy to understand how to fill in and fast enough to do it. When asked if there were any differences in the PCIAT assessment before and after using Google Form and Google Sheet, the psychologists answered that there were, the data was collected more quickly, easy to fill in, and fast data processing.

 After that, the dissemination stage was carried out to 516 guardians of SDIT Al Iman students. The data that has been submitted by respondents will appear in a Google Sheet as shown in Figure 6 below.

	Terbaru	Tes Adiks! View imp				2.2.2.2		10 00 40 1999							3	001 (	o - (a	Share -	3	2
1	9 9 4	0 7 *	- 10	18.3	4	神田	De	fail	- [11] +	1 7 0	A 4. 1	B (1) B	E+ ± + 14	• A • [ =	田田市	8- I				
12		in.																		
	· 8 ·		101						1111611	1 N 11		1.000	1.1.1	1. 16	1.60	- N -	0.0	1.0		
0	Terestary	Tangpil Pengsian Passioner	Natas	Anat		These Area the (second periodical Second Second Sec	uni suur uni uni 7	pertama kali mengenal galiyet (nonlali penginiyen 3 tahun)	notarigger Sadar avita Isalar avita Isalar Jang avita Isalar Jang avita Isalar Jang avita Isalar Jang avita	tergananah Tangga tertak tengga (minat mengolan matnan) untuk tengtabadan mathari banyak menghabadan padget?	matuangkan wekto beruatus gatiget daripeda beruatus enggota beluarga anda pang lain?	anda membacquit hubungan baru tengan secama pengguna genes enline?	bedang datasi sebita yang situtistan anat anis dalam inggenatur galget?	karana jumlah wattu yang alhubsikarnya dalam	metakukan	antig atak anta tempok menunik dol dari orang tao sejak adanya gariget?	entreanta altrivya anau bertukap kaat altanya apa pang dia takakan kattia bertuka neltina nggunakan gatigat?	menyelinap Lettak Derindersetten gelget Serkelangen derget Antropisas ande?	nengtu uaktu sandris tanure bernak dengan galget	
	805004132			Ander					James .	James .	(Gorg-Laters	James .	faterg-laterg	Tox Penalt	Jarang	James .	Janes	Tax Penah	James .	
	925203413.2			1Ats Rep.						staturg-beterg		Task Pernet	Kalang-kabing	Jana State	<b>Hadarg-katerg</b>	Nationg-Radong	Jeerg	Janang .	Hadong-	
	905000413.3			1.60) Balan					relegenders				Tacheg-calling	Kabeg-satarg	3446	National Andrews	Jean	Jatang .	Hadang-	
	8282024134			Alby Bekar					Nadarig-Aadarig				Jane 1	Tox Penal.	Heleng-halleng		Topic Fernalt.	Tidai Pernah	Tulah Pe	
	120223+13-4	806000	N YARM	1.Nov Bellar	Aut: Shu	al Table 1	0344	\$3um	Networkstorg	Nationg-Kelleng	rade g-katerg	Colorg-selard	risting-sating	construction of	Raderg Latery	-areq	Jeed.	Search .	tatery-	
	9/25/2024 14/0	h06000	e nea	1 Adv Televin	Aut. 200	armin?	See.	100	Tax Percet	Title Percel	TelePane -	Tas Pend	Total Percel	Tox Tener	area.	avera	and the	ana a	1000	
	8080004142	1 100000	H Hales	Ab-Bear	Aut: Shu	NT NAME OF	i tadarr	time.	Radarg-katarg	Janang .	James -	Janaria .	Autorip-Interne	dama in	Jatang	January .	Jaiming .	Janaria -	dama.	
	805033+14-3	1 5/06/202	a sieles	1 Alta, Bakari	Aut: Dive	tel T tallum		3 tehn	Kadarg-Kelarg	Hadeng-katleng	_innet_	Total Pernati	Hadang-kadang	Javang	Selatu	Janensi	Total Pernat	_arang	James	
	80500/#18.5	1 9/04/04/0	H Histor	1.6to Belor	Aut Shu	65711.bula	6	\$Shin	Kadang-kadang	awg	falarig-turing	Serrg	Sarrig	Tox Pend	Saing	Janua	Jacob Contract	Total Perceli	Tidak Py	
	1010034-1615	1 101000	4 Halles	Attublication	40.00	61.7		50	<b>Hiderg-kebrg</b>	Techny-keeing	Kindlerg-Autors	Kedeng-Kedeng	Federg-tableg	Radarg-Laterg	Kielerg-kallerg	Total Perset	Kinting-taslerg	Tax New	Tital Pa	
Ξ.:	9092034172	1 9/26000	H Harlast	1 Also Bakar	Aut Sho	10 0 th	-	2.00	Sering Setai	Katarg-keting	Swing	Total Partial	Katang-katang	Took Perrot	Janang:	Tipe Penels	Too Penal	Total Parcel	Hadang-	
	\$25204601		A Harias	1.5to Delar	Aut. Shi	ALT INTUIT 1	11.10.44	1 shut	Jaiong -		January	Table Perrylin	Factor g-Factor g	Total Panalt	Task Penah	Tipe Penah	Tox Penet	Janang .	Hadang-	
٩.,	h0h2004634		H Heles	1 Albu-Bekar	Air Shi	M Tahur A	tule.	2 Million	Tubei Remain	Jereng	Total Penalt	Jaterg-	Jeeg	Tox Penalt	Total Pernah	Tipst Female.	Tox Penat	Tidak Pernah	Tidak Pe	
٩.,	5/25/2024 7:01			1 Abullielon			1 Marian	23eben	Kadeg-tellarg	Servig	Sering	Jarang.	Saring	Nationg-Kelling	Janang	Tiple Pernah	19912	Total Pernah	Janaula -	
	\$0\$302×1313	506000	H History	1.6b. Bakar	All She	sti 7 tahun		Sanusaa	Serry	Hatang-katang	Kebrg-tellerg	Janang	-tead	Jarang	Jane 8	Hatang-kacang	Total Pyrolit	Hadeng-hadeng	i Haterg-	
1	8080004145	1 100000	of Fischer	An him	Air Dai	HTMM-	inter.	diahan.	Total Particip	arms.	Jarang .	Tible Particit	Carrier .	Natara-Jalang	Total Partals	and the second	Tox Penat	Title Person	Tital Pa	
e	9/29/2024 15:40			1 Alto Bakar		100 Cont 1 C C		373 50	Hadarg-Kellery		Tex Fanal	Table Plenati	Nationg-Lationg		Tipsi Perneti	Tipe Percel	Top Fertal	Talet Person	Jane 1	
																	10000		1000	

Figure 6. Respondents' Submit Results in Google Sheet

8) After the data collection period is complete, scoring is carried out based on PCIAT scoring. Then the scoring results are converted to Categories, which are obtained from the total score of 20 questions based on the interpretation of scores in PCIAT.

⊞	File Edit V	liew Insert	Format Data Tools Extensions Help			
C	く ち ら 唱	5 100%	▼ \$ % .0, .00 123   Defaul ▼	- 10 +	в I 🕆 _	
¥11	✓ fic t	Inicraft, Minecraft,	roblox			
	A	в 4	• D 4	► AU	AV	
1	Timestamp	Tanggal Pengisian Kuesioner	Kelas Anak	Total Skoring	Kategori	
2	5/25/2024 16:55	5/25/2024	Kelas 1 Abu Bakar Ash Shiddig	32	Ringan	
3	5/26/2024 13:07	5/26/2024	Kelas 1 Abu Bakar Ash Shiddiq	31	Ringan	
4	5/26/2024 15:47	5/26/2024	Kelas 1 Abu Bakar Ash Shiddig	43	Ringan	
5	5/28/2024 11:24		Kelas 1 Abu Bakar Ash Shiddig	41	Ringan	
3	5/26/2024 15:14		Kelas 1 Al Farabi	31	Ringan	
7	5/28/2024 8:14:3	5/28/2024	Kelas 1 Al Farabi	32	Ringan	
В	5/28/2024 8:32:*	5/28/2024	Kelas 1 Al Farabi	31	Ringan	
9	5/28/2024 8:41:0	5/28/2024	Kelas 1 Al Farabi	32	Ringan	
0	5/28/2024 8:43:2	5/28/2024	Kelas 1 Al Farabi	38	Ringan	
1	5/29/2024 20:49	5/25/2024	Kelas 1 Al Farabi	38	Ringan	
2	5/29/2024 21:13	5/29/2024	Kelas 1 Al Farabi	40	Ringan	
3	5/30/2024 9:24:3	5/30/2024	Kelas 1 Al Farabi	36	Ringan	
4	5/25/2024 16:08	5/25/2024	Kelas 1 Umar Bin Khattab	42	Ringan	
5	5/25/2024 17:11	5/25/2024	Kelas 1 Umar Bin Khattab	32	Ringan	
6	5/26/2024 19-45		Kelas 1 I Imar Bin Khattah	40		

Figure 7. PCIAT Data Scoring

Based on the stages of the research, it appears that screening and scoring PCIAT using Google Form and Google Sheet is an easy way to obtain results.

This is in accordance with previous studies which state that accessing Google Form does not require a long time, is easy to use, easy to understand, makes it easy to collect Midterm Assessment data, and is satisfied with Google Form [18]. Google Form can provide a person's database quickly [17]. Users are not bound by space and time, very easy to create and apply, test results or scores can be known quickly [19]. The use of Google Form is very effective, efficient, practical and easy so that it can minimize the use of paper [20]. Google Form is open source, easy to operate and integrate with related Google services [21]. Google Form is considered quite effective and shortens teacher performance in processing student learning outcomes [22]. Favoring the use of Google Form as an online questionnaire, easy to access, more efficient time, saves the use of paper, understands how to use it, and the display is easy to understand [23]. The use of Google Form provides convenience in data collection and analysis, as well as quick feedback [24].

### CONCLUSION

Based on the analysis of the results and discussion, it can be concluded that PCIAT screening and scoring can be done using Google Form and Google Sheet. As evidenced by the results of the research discussion which is in line with psychologist interviews and trials which state that psychologists find it easy to do PCIAT using Google Form, the quality of features in Google Form is considered very good, Google Form's performance in accessing data is considered fast compared to manually using paper, and psychologists are satisfied with the development of PCIAT using Google Form because it is quite fast and easy to make.

In conducting the pilot test, psychologists found the link easy to access and can be done anywhere and anytime, easy to understand how to fill in and fast enough to do so. Faster data collection, easy filling, and fast data processing are the differences between PCIAT manually and PCIAT using Google Forms.

### ACKNOWLEDGMENT

The researcher would like to express her deepest gratitude to all those who have helped this research; Psychologist Riani Fitria, Principal of SDIT Al Iman Mrs. Ipah Saripah, Chairperson of the SDIT Al Iman Committee Mrs. Kartinah, and all guardians of SDIT Al Iman Bintara students who have given their time for this research. Jazakumullah khoyr katsir.

### REFERENCES

- [1] Badan Pusat Statistik. (2023). Katalog Statistik Telekomunikasi Indonesia 2022. [On-line]. Available: https://www.bps.go.id/id/publication/2023/08/31/131385d0253c6aae7c7a59fa/statistik-telekomunikasi-indonesia-2022.html [June 9, 2024].
- [2] A. Ahdiat. "Penetrasi Internet Indonesia Capai 78% pada 2023, Rekor Tertinggi Baru". Internet: https://databoks.katadata.co.id/datapublish/2024/01/30/penetrasi-internet-indonesia-capai-78-pada-2023-rekor-tertinggi-baru, Jan 30, 2024 [June 9, 2024].
- [3] C.M Annur. "Jumlah Pengguna Internet di Indonesia per Januari (2014-2024)". Internet: https://databoks.katadata.co.id/datapublish/2024/02/27/ada-185-juta-pengguna-internet-di-indonesiapada-januari-2024, Feb 27, 2024 [June 9, 2024].
- [4] Ns. Fitria Mayenti and Indiana Sunita. "Dampak Penggunaan Gadget Terhadap Perkembangan Anak Usia Dini Di Paud Dan Tk Taruna Islam Pekanbaru". Jurnal Photon, Vol. 9, No.1, Oktober 2018, https://doi.org/10.37859/jp.v9i1.1092.
- [5] J.R Muduli. "Addiction to Technological Gadgets and Its Impact on Health and Lifestyle: A Study on College Students". M.A. thesis, Departement of Humanities and Social Sciences National Institute of Technology, Rourkela, 2014.
- [6] P.J Simanjuntak. "Pengaruh Kendali Diri dan Stres Akademik Terhadap Kecanduan Gawai Mahasiswa Universitas Aki Semarang Ditinjau dari Gender". M.A. thesis. Universitas Kristen Satya Wacana, Salatiga, 2020.
- [7] S.I Chiu. "The Relationship Between Life Stress and Smartphone Addiction on Taiwanese University Student: A Meditation Model of Learning Self Efficacy and Social Efficacy". Computers in Human Behavior, Vol. 34, page 49-57, May 2014, https://doi.org/10.1016/j.chb.2014.01.024.
- [8] K. Young and C.N de Abreu. Internet Addiction in Children and Adolescents. New York: Springer Publishing, 2017.
- [9] D.S Asri. "Tingkat Kepercayaan Diri Atlet Pertandingan Kyorugi (Sparing) Cabang Olahraga Taekwondo". Thesis, Universitas Pendidikan Indonesia. 2013.
- [10] D.A Maharani, et al. "Mengujikan Internet Addiction Test (IAT) ke Responden Indonesia". INA-Rxiv Papers. http://dx.doi.org/10.31227/osf.io/7ag4w.
- [11] K. Siste, et al. "Validation Study of The Indonesian Internet Addiction Test Among Adolescents". NLM: National Library of Medicine, Vol. 16, No. 2, Feb 2021,

https://doi.org/10.1371%2Fjournal.pone.0245833.

- [12] A.A Patel. "A Secure Paperless Assessment Software QuestionMark Perception", in Proceedings of The Fifth International Conference on E-Learning and E-Technologies in Education (ICEEE), Malaysia, 2016.
- [13] U. Rahardja, et al. "Pemanfaatan Google Formulir Sebagai Sistem Pendaftaran Anggota Pada Website Asosiasi". Media Informatika Budidarma, Vol. 2, No. 4, Oktober 2018, page 123-110, http://dx.doi.org/10.30865/mib.v2i4.789.
- [14] J. Slamet. "Otak-atik Google Form Guna Pembuatan Kuesioner Kepuasan Pemustaka". Info Persadha: Media Informasi Perpustakaan Universitas Sanata Dharma, Vol. 14, No.1, 2016.
- [15] A.Z, Sianipar. "Penggunaan Google Form Sebagai Alat Penilaian Kepuasan Pelayanan Mahasiswa". Journal of Information System, Applied, Management, Accounting and Research. Vol. 3, No.1, Feb 2019, page 16-22, https://journal.stmikjayakarta.ac.id/index.php/jisamar/article/view/72.
- [16] K. Ummi, et al. "Penggunaan Google Form untuk Pendataan Absensi Siswa di MAN 2 Model Medan". Rambate: Jurnal Pengabdian Kepada Masyarakat, Vol.1, No. 1, Juni 2021.
- [17] C.T Purnami and D.R Sawitri. "Instrumen Perceive Stress Scale Online Sebagai Alternatif Alat Pengukur Tingkat Stress Secara Mudah dan Cepat", in Proceeding Seminar Nasional Kolaborasi Pengabdian Kepada Masyarakat SNK-PPM Undip-Unnes, 2019, page 311-314.
- [18] A. Anjani, et al. "Efektivitas Penggunaan Google Form sebagai Media Evaluasi saat Penilaian Tengah Semester (PTS)", in Proceeding Seminar Pendidikan Nasional Jurusan Tarbiyah FTIK IAIN Palangka Raya. 2021, page 49-60.
- [19] L.W.S Utami. "Penggunaan Google Form Dalam Evaluasi Hasil Belajar Peserta Didik di Masa Pandemi Covid-19". TEACHING: Jurnal Inovasi Keguruan dan Ilmu Pendidikan, Vol. 1, No. 3, Sep 2021, page 150-156. http://dx.doi.org/10.51878/teaching.v1i3.453.
- [20] M. Iqbal, et al. "Pengunaan Google Forms Sebagai Media Pemberian Tugas Mata Kuliah Pengantar Ilmu Sosial", Jurnal Pendidikan Ilmu-Ilmu Sosial, Vol. 10, No. 1, 2018, page 120-127.
- [21] A. Shabir, et al."Penggunaan Google Form sebagai Instrumen Asesmen Daring", in Proceeding Seminar Nasional Hasil Pengabdian, Edisi 11, 2021, page 1215-1219.
- [22] I.A.F Baiquni, et al. "Pemanfaatan Google Form Sebagai Alat Evaluasi Pembelajaran Siswa di SMP Muhammadiyah Al-Kautsar". Jurnal Teknologi Pendidikan dan Pembelajaran (JTPP), Vol 1, No.3, Jan-Mar 2024, page 540-543.
- [23] H.H Batubara. "Penggunaan Google Form Sebagai Alat Penilaian Kinerja Dosen di Prodi PGMI Uniska Muhammad Arsyad Al Banjari", Vol. 8, No.1, June 2016, page 39-50.
- [24] M. Nasir, et al. "Pemanfaatan Google Form Sebagai Media Evaluasi Pada Mata Kuliah Pembelajaran SKI MI di Prodi PGMI STIQ Rakha Amuntai". An-Nashr: Jurnal Ilmiah Pendidikan dan Sosial Kemasyarakatan, Vol. 1, No. 1, Jan-Jun 2023, page 18-23.