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ANALYSIS OF WEBSITE AND EXCEL-BASED PROMOTIONAL MEDIA DETERMINATION

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ABSTRACT

The development of information technology now has a positive impact on increasing the use of social media which can facilitate all the activities of SMEs in Indonesia to carry out the stages of marketing and promoting the products produced. SME business actors can use information technology in various fields including procurement of raw materials, and production processes to create a marketplace. Currently, the use of technology has been widely used in terms of marketing and product promotion. The decision support method that can be used to overcome these problems is the AHP method. The data was obtained from the distribution of questionnaires from the related SME actors. Based on the results of the overall average weight of the Website-based and Excel-based AHP SMEs Application, a can be concluded that for calculating the AHP method using the Website-based AHP SMEs Application using a laptop, mobile phone and tablet device accessed on a web browser, it will be easier to use, effective and accurate for the ranking and reporting results obtained instead of using Excel, the prioritized alternative from the Website and Excel-based AHP SMEs Application is social media to expand the market, increase promotions with various social media applications to increase product sales of SMEs actors in Indonesia.

Keywords: AHP, Media Promotion, SMEs, Website, Excel

1. INTRODUCTION

The development of information technology today has a positive impact on increasing the use of social media which can facilitate all the activities of SMEs in Indonesia to carry out the stages of marketing and promoting the products produced (Marisa et al., 2022). SME business actors can use information technology in various fields including the procurament of raw materials, and production processes to create a marketplace (Subiyantoro et al., 2022). Currently, the use of technology has been widely used in terms of product marketing and promotion (Ekawati, 2021). SMEs in Indonesia can market and communicate with customers through various media such as social media, websites, and the internet (Jatmika & Andarwati, 2021).

Based on Law no. 20 of 2008 concerning SMEs, namely making all guidelines towards changing the paradigm of SME empowerment (Subiyantoro et al., 2021). According to data from the Central Statistics Agency of Malang City, the quantity of SMEs in Malang City has increased by 156 units and has increased to 1113 units in 2018 (Kurniawati & Ahmad, 2021). The priority of SME actors is to increase the sales volume produced by their products by marketing the product (Amrullah et al., 2021). This is the main goal for SME actors because without marketing the goods produced there will be no use (Noviyanti, 2019). A promotional strategy is considered successful if it can maximize sales volume which will provide long-term benefits to the business being run (Nurdiyanto & Meilia, 2016).

So, to do business, SMEs need an effective marketing strategy to win a competitive advantage over other SMEs in producing goods and services because the threat of competitors requires SMEs to always be vigilant and must be able to seize opportunities and create opportunities that exist(Wardana & Andarwati, 2021). So it is necessary to select the most effective marketing strategy for SMEs actors using the Analytical Hierarchy Process (AHP) method which is one part of the decision-making system on how to choose the right promotional media for SMEs product promotion(Agesta Nurmaida et al., 2019).



Therefore, this study shows which criteria are important in determining promotional media for SME actors. This study aims to analyze the comparison of determining promotional media for SME actors using the Website and Excel-based AHP method in making decisions and using which alternative best suits their needs, to facilitate marketing which will have an impact on increasing SMEs product sales(Marisa et al., 2020).

2. DISCUSSION

2.1. Analytical Hierarchy Process (AHP)

AHP is a functional hierarchy to solve problems involving variables, criteria, and alternatives, some of which are qualitative(Sumirah et al., 2018). AHP is used to rank using criteria, weights, and alternatives that have been determined by SME actors(Larasati & Marisa, 2019). Has the advantage of making a decision-making system process that can be described graphically so that it is easily understood by the parties involved in making the decision(Putri & Mahendra, 2019). The basis for using the AHP method must refer to a measurable hierarchical rating scale shown in Table 1 below.

	Table 1: Hierarchical Rating Scale
Intensity Interest	Explanation
1	Both elements have the same effect
3	The category is being compared with other interests
5	More categories than other interests
7	Strong category compared to other interests
9	The interests of one extreme are stronger than the other interests

2.2. Consistency

In using the AHP method, SME actors must know how well the consistency of the important things in the Consistency Index (CI)(Pradipta & Diana, 2017). The following is to calculate the consistency Index (CI) with the formula below.

$$CI = \frac{(\lambda_{max} - n)}{(n-1)} \tag{1}$$

Where:

n = many elements used

²⁸he maximum eigenvalues of the pairwise comparison matrix represent the local priority vector benchmarks for all criteria determined by SME actors(Nurdiyanto & Meilia, 2016). The following calculates the consistency ratio (CR) with the formula below.

$$CR = \frac{CI}{RI} \tag{2}$$

Where:

CR = Consistency Ratio

CI = Consistency Index

RI = Random Consistency Index



2.3. Data Analysis

In this comparative analysis research on the determination of promotional media using the Website and Excel-based AHP method, criteria and choices are used according to what has been formulated in the background of the problem above. (Agesta Nurmaida et al., 2019). The data collection used is data obtained from the results of questionnair distributed to respondents of SME actors(Azhar et al., 2018). The criteria and alternatives used can be seen in Table 2 below.

Critoria	Criteria Alternative			
Gillena	Alternative			
Advertising Cost	Social media			
	Print media			
	Television			
	Promotion Time			
	Product Collaboration			
Target Market	Social media			
	Print media			
	Television			
	Promotion Time			
	Product Collaboration			
Time For Promotion	Social media			
	Print media			
	Television			
	Promotion Time			
	Product Collaboration			
Product Identity	Social media			
	Print media			
	Television			
	Promotion Time			

2.4. Hierarchical Structure

The decision hierarchy uses several supporting elements following the Objective elements, Criteria elements, and Alternative elements that have been made in this study that have been designed. The following decision hierarchy can be seen according to Figure 1 below.



Figure 1: Decision Hierarchy



2.5. AHP SMES Website Application

The SME AHP application is a website-based application created with the PHP programming language and Frontend using HTML and CSS then the database uses the MySQL database. The AHP SMEs application can be accessed using laptop, tablet, and mobile devices via a browser application on their respective devices. The following is a form for the Website-based AHP SMEs Application section:

2.6. Homepage

The following is the display of the SME AHP Application to see the graph of the alternative used, see the AHP preference value, see the AHP criteria and see the Alternative Media according to Figure 2 below.



Figure 2: Home Page View

2.7. Criteria Data

The following is the display of the Criteria Data for inputting the name of the criteria determined by SME actors according to Figure 3 below.

AH	P - Web Based	Ho	me Kriteria	Alternatif Nilai P	Preferensi AHP Analisa	 Laporan • 	Admin
Data × Ha	a Kriteria pus Centang 🕞 Tambah Da	ata					
Show	10 entries				Search:		
	ID Kriteria	Nama Kriteria		Bobot Kriteria		Aksi	
	C1	Biaya Iklan		0.620232558139535	i	C ×	
	C2	Target Pasar		0.173565891472868	27	C ×	
	C3	Waktu untuk Promosi		0.148914728682170	48	C ×	
	C4	Identitas Produk	duk 0.05728682170542625			(2)	
	ID Kriteria	Nama Kriteria		Bobot Kriteria		Aksi	
Showin	ng 1 to 4 of 4 entries	Pr	revious1Next				

Figure 3: Criteria Data Display



2.8. Alternative Data

The following is the Alternative Data display for inputting alternative names determined by SME actors according to Figure 6 below.

AHF	P - Web Based	Home Kriteri	a Alternatif Nilai Preferensi AHP Anali	sa 👻 Laporan 👻 Admin 👻
Data × Haj	Alternatif pus Centang 🕞 Tambah Data			
Show	10 entries		Search:	
	ID Alternatif	Nama Alternatif	Hasil Hitung	Aksi 🗆
	A001	Media Sosial	0.452656025946072	
	A002	Kolaborasi Produk	0.1443928738222223	
	A003	Televisi	0.1327392221734714	
	A004	Media Cetak	0.11136182861404899	
	A005	Mesin Pencarian	0.164109750938283	
	ID Alternatif	Nama Alternatif	Hasil Hitung	Aksi

Figure 4: Alternative Data View

2.9. Preference Value Data

The following is a display of Preference Value Data to input the preference value of the AHP method determined by SME actors according to Figure 5 below.

AH	P - Web Ba	ised	Home	Kriteria	Alternatif	Nilai Preferensi AHP	Analisa -	Laporan 🕶	Admin 🕶
Data	Nilai Prefere	nsi							
× Ha	pus Centang 🛛 🗂 Tan	nbah Data							
Show	10 entries					S	earch:		
	Nilai 🗆	Keterangan						Aksi	
	9	Mutlak sangat penting dari						(
	8	Mendekati mutlak dari							
	7	Sangat penting dari						(2)	
	6	Mendekati sangat penting dari							
	5	Lebih penting dari							
	4	Mendekati lebih penting dari							

Figure 5: Preference Value Data Display

2.10. Criteria Analysis

The following is the appearance of the Criteria Analysis for inputting the criteria values determined by SME actors according to Figure 6 below.



🆀 Beranda 7 🛢 Analisa Krite	eria / 📕 Tabel Analisa Kriteria	
Analisa Kriteria		
Kriteria Pertama	Pernilaian*	Kriteria Kedua
Biaya Iklan	9 - Mutlak sangat penting dari	Target Pasar
Biaya Iklan	9 - Mutlak sangat penting dari	Waktu untuk Promosi
Biaya Iklan	9 - Mutlak sangat penting dari	Identitas Produk
Target Pasar	9 - Mutlak sangat penting dari	Waktu untuk Promosi
Target Pasar	9 - Mutlak sangat penting dari	Identitas Produk
Waktu untuk Promosi	9 - Mutlak sangat penting dari	Identitas Produk

Criteria Comparison Figure 6: Criteria Analysis Display

The following is a comparison of criteria displayed to check the comparison of criteria that have been inputted or determined by SME actors according to Figure 7 below.

AHP - Web Bas	sed			Home	e Kriteria	Alternatif	Nilai Preferensi AHP A	nalisa 🕶	Lapor	an 👻 Admin 👻
Perbandingan Krite Ulangi Penghitungan Kriteria	ria									
Antar Kriteria Biaya Iklan		an	n Target Pasar		Waktu untuk Promosi		Iden	ldentitas Produk		
Biaya Iklan		1		9.0000		9.0000		9.000	9.0000	
Target Pasar		0.1111		1		9.0000		9.000	9.0000	
Waktu untuk Promosi		0.1111		0.1111	1		9		9.0000	
Identitas Produk		0.1111		0.1111		0.1111		1		
Jumlah		1.3333	3 10.222		!	19.1111		28.0000		
Perbandingan	Biaya	a ikian	Target P	asar	Waktu untu	k Promosi	Identitas Produk	Ju	ımlah	Prioritas
Biaya Iklan	0.750	0	0.8804		0.4709		0.3214	2	4228	0.6057
Target Pasar	0.083	0.0978		0.4709			0.3214	0	9735	0.2434
Waktu untuk Promosi	0.083	3	0.0109	0.0523			0.3214	0	4680	0.1170

Figure 7: Criteria Comparison View

2.11. Alternative Analysis

The following is an alternative analysis display for inputting alternative values determined by SME actors according to Figure 8 below.



AHP - Web Based	Home	Kriteria	Alternatif	Nilai Preferensi AHP	Analisa 👻	Laporan 🗸	Admin -
Analisa Alternatif							
Pilih Kriteria*	Biaya Iklan						
Kriteria Pertama	Pernilaian**				Kriteria Kedu	la	
Media Sosial	9 - Mutlak sangat penting dari				Kolaborasi	Produk	
Media Sosial	9 - Mutlak sangat penting dari				Televisi		
Media Sosial	9 - Mutlak sangat penting dari				Media Cetak		
Media Sosial	9 - Mutlak sangat penting dari				Mesin Pencarian		
Kolaborasi Produk	9 - Mutlak sangat penting dari				Televisi		
Kolaborasi Produk	9 - Mutlak sangat penting dari				Media Ceta	ak	
Kolaborasi Produk	9 - Mutlak sangat penting dari		Mesin Pen	carian			
Televisi	9 - Mutlak sangat penting dari	Media Ceta	ak				
Televisi	9 - Mutlak sangat penting dari				Mesin Pen	carian	
Media Cetak	9 - Mutlak sangat penting dari				Mesin Pen	carian	

Figure 8: Alternative Analysis View

2.12. Alternatives According to Criteria

The following is an Alternative by Criteria display to check the comparison of alternatives that have been inputted or determined by SME actors according to Figure 9 below.

AHP - Web Bo	Home	Kriteria /	Alterna	atif Nila	ai Preferensi	i AHP Ana	llisa • Lap	ooran 👻 Admin 👻		
Hapus Semua Data	urut Kriteria									
Biaya Iklan	Media Sosial		Kolaborasi Produ	ık	Tel	evisi	Media C	etak	Mesin Pe	ncarian
Media Sosial	1	9.0000			9.0	9.0000 9.0000			9.0000	
Kolaborasi Produk	0.1111	1			9.0000 9.0000			9.0000		
Televisi	0.1111		0.1111		1 9.0000		9.0000		9.0000	
Media Cetak	0.1111		0.1111		0.1	111	1		9.0000	
Mesin Pencarian	0.1111		0.1111		0.1	111	0.1111		1	
Jumlah	1.4444		10.3333		19.	2222	28.1111		37.0000	
Perbandingan	Media Sosial	Kola	aborasi Produk	Televi	si	Media (Cetak	Mesin Per	ncarian	Prioritas
Media Sosial	0.6923	0.87	710	0.4682	2	0.3202		0.2432		0.4525
Kolaborasi Produk	0.0769	0.09	968	0.4682	2	0.3202		0.2432		0.1505

Figure 9: Alternative Views By Criteria

2.13. Data Weight

The following is the display of the Weight Data to check the weight values that have been inputted, the criteria values , and alternative values determined by SME actors according to Figure 10 below.



AHP - Web Based Home

ome Kriteria Alternatif Nilai Preferensi AHP Analisa 🕶 Laporan 🕶 Admin 👻

Data Bobot

	Kriteria						
	Biaya Iklan	Target Pasar	Waktu untuk Promosi	Identitas Produk			
Alternatif	0.6057	0.2434	0.1170	0.0339			
Media Sosial	0.4525	0.4525	0.4525	0.3978			
Kolaborasi Produk	0.1505	0.1505	0.1505	0.1585			
Televisi	0.1287	0.1287	0.1287	0.1047			
Media Cetak	0.1135	0.1135	0.1135	0.1827			
Mesin Pencarian	0.1547	0.1547	0.1547	0.2482			

Figure 10: Weight Data Display

2.14. Final Result

The following is the display of the Final Results to check the final result value from the average results of the criteria and alternative values determined by SME actors according to Figure 11 below.

Home

AHP - Web Based

Kriteria Alternatif Nilai Preferensi AHP Analisa - Laporan - Admin -

Hasil Akhir

Alternatif	Biaya Iklan	Target Pasar	Waktu untuk Promosi	Identitas Produk	Hasil Akhir
Media Sosial	0.2741	0.1101	0.0529	0.0135	0.4506
Kolaborasi Produk	0.0912	0.0366	0.0176	0.0054	0.1508
Televisi	0.0780	0.0313	0.0151	0.0036	0.1279
Media Cetak	0.0688	0.0276	0.0133	0.0062	0.1159
Mesin Pencarian	0.0937	0.0377	0.0181	0.0084	0.1579



2.15. Ranking Results

The following is the final result display to check the final result value from the average criteria and alternative values determined by SME actors according to Figure 12 below.



AHP - We	b Based	Home	Kriteria	Alternatif	Nilai Preferensi AHP	Analisa -	Laporan 🕶	Admin •
wesin Pencarian	0.0937 0.03	5//	U.U I & I		0.0084		0.1579	
Hasil Peran	kingan							
ID	Nama		F	Hasil Akhir		Ranking	1	
A001	Media Sosial		C). 4506		1		
A005	Mesin Pencarian		C). 1579		2		
A002	Kolaborasi Produk		C). 1508		3		
A003	Televisi		C). 1279		4		
A004	Media Cetak		C). 1159		5		

Figure 12: Ranking Results Display

2.16.. AHP Data Processing in Excel

After doing calculations manually from the results of processing questionnaire data from SMEs actors then it is used as a comparison matrix, below are the results of data management using Excel as follows:

Table 3: Criteria Data

	Advertising Cost	Target Market	Time For Promotion	Product Identity
Advertising Cost	1,00	0,20	2,00	0,33
Target Market	5,00	1,00	2,00	1,00
Time For Promotion	0,50	0,50	1,00	0,33
Product Identity	3,00	1,00	3,00	1,00
Total	9,50	2,70	8,00	2,67

Table 3 shows the criteria data for each of the respective criteria determined by SME actors.

	Table 4: Criteria Data Weight							
	Advertising	Target Market	Time For	Product	Weight			
	Cost		Promotion	Identity				
Advertising Cost	0,11	0,07	0,25	0,13	0,138584			
Target Market	0,53	0,37	0,25	0,38	0,380422			
Time For Promotion	0,05	0,19	0,13	0,13	0,121954			
Product Identity	0,32	0,37	0,38	0,38	0,359040			

Table 4 shows the results of the weighting of the criteria data from the calculation of each criterion, which will later be added up to the total for each of the criteria determined by the SME actors.

	Table 5: Advertising Cost Alternative Data					
Advertising Cost	Social	Print Media	Television	Search	Product	Weight
	Media			Engine	Collaboration	-
Social Madia	0.00	0.02	0.25	0.26	0.20	0 282670



Print Media	0,09	0,08	0,02	0,13	0,07	0,079483
Television	0,06	0,23	0,07	0,09	0,06	0,100414
Search Engine	0,28	0,15	0,21	0,26	0,29	0,239378
Product Collaboration	0,28	0,31	0,35	0,26	0,29	0,298055

Table 5 shows the results of alternative data on advertising costs. From this calculation, each alternative advertising cost is then divided by the total of each alternative advertising cost. Later, it will be averaged on the alternative weights of advertising costs determined by SME actors.

Table 6: Target Market Alternative Data

Target Market	Social	Print Media	Television	Search	Product	Weight
	Media			Engine	Collaboration	
Social Media	0,24	0,25	0,27	0,57	0,15	0,297811
Print Media	0,08	0,08	0,05	0,07	0,10	0,076370
Television	0,12	0,25	0,14	0,07	0,15	0,146048
Search Engine	0,06	0,17	0,27	0,14	0,30	0,188695
Product Collaboration	0,49	0,25	0,27	0,14	0,30	0,291076

Table 6 shows the results of alternative target market data from the calculation of each alternative target market. Then, it is divided by the total of each alternative target market respectively. Later, it will be averaged on the alternative weights of the target market determined by SME actors.

	Tuble 7.	Allel nullve D	utu Time Por	FIUINULIUN		
Time For Promotion	Social	Print Media	Television	Search	Product	Weight
	Media			Engine	Collaboration	
Social Media	0,20	0,33	0,29	0,09	0,25	0,231991
Print Media	0,10	0,17	0,14	0,18	0,25	0,168268
Television	0,10	0,17	0,14	0,18	0,13	0,143268
Search Engine	0,40	0,17	0,14	0,18	0,13	0,203268
Product Collaboration	0,20	0,17	0,29	0,36	0,25	0,253203

Table 7: Alternative Data Time For Promotion

Table 7 shows the results of the alternative time data for promotion from the calculation of each alternative time for each promotion. Then, it is divided by the total of each alternative time for each promotion. Later, it will be averaged at the alternative weights of time for promotions determined by SME actors.

	Table 8: Product Identity Alternative Data					
Time For Promotion	Social	Print Media	Television	Search	Product	Weight
	Media			Engine	Collaboration	
Social Media	0,24	0,31	0,33	0,57	0,28	0,346643
Print Media	0,06	0,08	0,08	0,05	0,03	0,060717
Television	0,12	0,15	0,17	0,10	0,28	0,162812
Search Engine	0,08	0,31	0,33	0,19	0,28	0,237799
Product Collaboration	0,49	0,15	0,08	0,10	0,14	0,192029



Table 8 shows the results of alternative product identity data from the calculation of each alternative product identity. Then, it is divided by the total of each alternative identity of each product. Later, it will be averaged on the alternative weights of product identities determined by SME actors.

		Table 9: Ave	erage Amoun	t		
	Advertising	Target	Time For	Product	Average	Rating
	Cost	Market	Promotion	Identity		
Social Media	0,282669989	0,297810761	0,231991342	0,346642848	0,276444875	1
Print Media	0,079483413	0,076369821	0,168268398	0,060716541	0,109485505	5
Television	0,100413596	0,146048237	0,143268398	0,162812393	0,141139426	4
Search Engine	0,239378397	0,188695114	0,203268398	0,237799311	0,205542832	3
Product Collaboration	0,298054605	0,291076067	0,253203463	0,192028907	0,267387363	2

Table 9 shows the results of the overall average number of AHP results on the type of promotion media for SME products, the first order is social media. Then the second order is product collaboration, the third is search engines, the fourth is the television and the last is print media in data processing using the AHP method in Excel.

4. CONCLUSION

Based on the results of the analysis of the AHP method in this study, it can be concluded that alternative social media is a priority criterion in increasing the sales volume of SMEs actors who use the Website-Based AHP SMEs Application by getting an average weight value of 0.4506, alternative search engines with an average weight value - 0.1579, product collaboration alternatives with an average weight value of 0.1508, television alternatives with an average weight value of 0.1279, and the last priority is print media alternatives with an average weight value of 0.1159. For the SMEs AHP Application using Excel, social media alternatives are prioritized criteria by getting an average weight of 0.276444875, product collaboration alternatives with an average weight value of 0.267387363, alternative search engines with an average weight value of 0.205542832, alternative television with an average weight value of 0.141139426, and the last priorities are alternative print media with an average weight value of 0.109485505. Based on the results of the overall average weight of the Website-based and Excel-based AHP SMEs Application, it can be concluded that for calculating the AHP method using the Website-based AHP SMEs Application using a laptop, mobile phone and tablet device accessed on a web browser, it will be easier to use, effective and accurate for the ranking and reporting results obtained instead of using Excel, the prioritized alternative from the Website and Excel-based AHP SMEs Application is social media to expand the market, increase promotions with various social media applications to increase product sales of SMEs actors in Indonesia.

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