

BAB VI

KESIMPULAN DAN SARAN

6.1. Kesimpulan

Kesimpulan yang dapat ditarik dari penelitian yang telah dilakukan adalah sebagai berikut :

1. Dari penelitian yang telah dilakukan terhadap 41 orang responden di jurusan Teknik Informatika, Universitas Palangkaraya, terhadap elemen desain warna merah, warna hijau, warna biru, warna kuning dan karakteristik bentuk bulat (*round*), kaku (*angular*), campuran (bulat dan kaku) yang dilakukan pada eksperimen satu didapatkan hasil bahwa elemen desain warna biru ($M= 4,0732$, $SD=0,87722$) dan elemen desain warna merah ($M=4,0244$, $SD=0,72415$) masing –masing memiliki potensi untuk menimbulkan keadaan emosi positif, terutama untuk elemen desain warna biru, dan untuk elemen desain bentuk, karakteristik bentuk bulat (*round*) ($M=3,6098$, $SD=0,83301$) lebih memiliki potensi untuk menimbulkan keadaan emosi positif. Pada eksperimen yang kedua dibuktikan bahwa kombinasi warna dan bentuk yang memiliki potensi menimbulkan keadaan emosi positif ketika diterapkan pada tampilan antarmuka sistem memberikan hasil nilai rerata yang cukup tinggi kearah positif yaitu, *prototype* biru ($M=4,2439$, $SD=0,73418$) dan *prototype merah* ($M=4,0488$, $SD=0,66900$).
2. Untuk merancang antarmuka *mobile learning* yang memperhatikan aspek emosional didasarkan pada hasil pengujian terhadap elemen desain warna

dan bentuk pada eksperimen satu, yaitu penggunaan warna biru atau merah dan penggunaan karakteristik bentuk bulat (*round*) dapat membangkitkan emosi positif. Warna biru atau merah dan karakteristik bentuk bulat (*round*) pada rancangan antarmuka *mobile learning* diterapkan pada komponen antarmuka seperti *background*, *foreground*, tombol dan dengan teknik kombinasi warna yang digunakan adalah *monochromatic*. Pada komponen antarmuka *background* diterapkan pilihan warna yang paling muda dari warna-warna yang dihasilkan dari teknik kombinasi warna *monochromatic*, sedangkan pada *foreground* dan tombol diterapkan warna yang sedikit lebih tua (gelap) dari warna *background*. Penerapan karakteristik bentuk bulat (*round*) dilakukan pada penggunaan gambar *icon* yang cenderung memiliki sisi bulat (*round*) dan desain tombol berbentuk oval atau memiliki sisi bulat (tidak kaku) pada setiap sisinya.

6.2. Saran

Berdasarkan hasil yang telah didapatkan dari penelitian ini, saran yang dapat diberikan adalah sebagai berikut :

1. Elemen desain warna yang digunakan untuk menguji respon emosi hanya terdiri dari empat warna primer, yaitu merah, hijau, biru, kuning. Dan penelitian yang sudah dilakukan juga hanya menguji respon emosi terhadap masing-masing dari empat jenis warna primer yang digunakan. Diharapkan untuk penelitian dimasa mendatang dapat dilakukan pengujian respon emosi terhadap jenis-jenis warna sekunder dan menguji respon emosi terhadap kombinasi dari satu atau lebih jenis warna.

2. Dalam mengukur atau mengetahui respon emosi terhadap stimulan (dalam hal ini elemen desain dan *prototype m-learning*) dilakukan dengan menggunakan instrumen pengukuran *SAM Questioner* yang mengelompokkan emosi kedalam dimensi-dimensi tertentu seperti *pleasure*, *arousal*, *dominance*. Namun instrumen *SAM Questioner* yang digunakan tidak bisa memberikan secara pasti tentang emosi sebenarnya yang sedang dirasakan oleh responden terhadap stimulan yang diberikan. Diharapkan pada penelitian dimasa mendatang dapat digunakan instrumen pengukuran yang berbeda yang dapat memberikan informasi pasti tentang emosi yang dirasakan responden terhadap rangsangan yang diberikan.

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LAMPIRAN

Lampiran 1 Kuesioner PANAS

Petunjuk :

Berikut ini terdapat sejumlah pernyataan yang menggambarkan berbagai macam perasaan dan emosi Anda. Bacalah dan berikan nilai pada setiap pernyataan sesuai dengan yang Anda rasakan **Setiap Harinya selama 7 Hari**, dengan **Nilai** berikut :

5 = sangat banyak

4 = cukup banyak

3 = normal

2 = sedikit

1 = sangat sedikit

Waktu pengisian dilakukan setiap pagi hari setelah bangun tidur (06.00 WIB s/d 10.00 WIB)

No	Emosi	Skor	No	Emosi	Skor	No	Emosi	Skor	No	Emosi	Skor
1	Bahagia		15	Tersinggung		29	Putus asa		43	Murung	
2	Sedih		16	Antusias		30	Tertarik		44	Percaya diri	
3	Bergairah		17	Bersalah		31	Sendirian		45	Benci	
4	Muak		18	Tenang		32	Perhatian		46	Sebel	
5	Ceria		19	Dipermalukan		33	Kesepian		47	Berarti	
6	Marah		20	Energik		34	Konsentrasi		48	Gugup	
7	Lega		21	Gusar		35	Ketakutan		49	Aktif	
8	Puas		22	Kuat		36	Sewot		50	Bermusuhan	
9	Tertekan		23	Semangat		37	Gelisah		51	Terinspirasi	
10	Apatis		24	Gembira		38	Tertantang		52	Waspada	
11	Berharga		25	Gemetar		39	Malas		53	Takut	
12	Bangga		26	Lincih		40	Tekun		54	Tegas	
13	Khawatir		27	Terhina		41	Senang		55	Tidak gentar	
14	Pantas disalahkan		28	Marah pada diri sendiri		42	Tidak puas pada diri sendiri		56	Muak pada diri sendiri	

Lampiran 2 Hasil Proses Quasi

R	Jenis Afek	Butir Pernyataan Terpilih	Skor	Kecenderungan
1	Positif	1,3,5,7,11,12,16,18,20,22,23,24,26,30,32,34,38,40,44,47,49,51,52,54,55	147	Positif
	Negatif	9,13,33,35,37,39,41,43,46,48	34	
2	Positif	1,3,5,11,12,18,20,24,44,49	95	Positif
	Negatif	13,27,28,33,37,46,53	25	
3	Positif	1,23,30,41,44,49	85	Positif
	Negatif	2,6,13,17,31,33,37,48,52	63	
4	Positif	1,3,5,8,12,16,18,20,23,34,38,41,44,47,51	79	Positif
	Negatif	2,6,9,10,13,31,43	20	
5	Positif	1,3,5,7,8,16,23,30,32,34,38,41,44,49,51	91	Positif
	Negatif	4,6,13,17,31,33,37,39,46,48	24	
6	Positif	1,3,5,7,8,11,12,16,18,22,23,24,26,32,41,44,49,55	187	Positif
	Negatif	14,15,28,31,33,36,39,43,46,48,53	75	
7	Positif	1,3,5,7,12,13,16,18,22,23,30,32,34,38,44,47,51	103	Positif
	Negatif	2,9,19,28,52,56	28	
8	Positif	1,3,5,12,16,18,20,22,23,30,32,41,44,49,51	76	Positif
	Negatif	2,6,13,15,19,21,29,31,33,37,39,43,46,52	37	
9	Positif	1,3,18,23,24,30,34,41,49	41	Negatif
	Negatif	2,4,6,15,17,33,39,42,45,46,48	46	
10	Positif	1,5,12,18,23,24,34,41,49,54	39	Positif
	Negatif	-	0	
11	Positif	1,5,18,44	29	Positif
	Negatif	13,35,37,39,53	18	
12	Positif	1,12	9	Positif
	Negatif	-	0	
13	Positif	1,3,5,7,8,16,23,30,32,34,38,41,44,49,51,54	103	Positif
	Negatif	2,4,6,13,17,28,21,33,37,39,46,48,56	26	
14	Positif	1,3,5,7,12,13,16,18,22,23,30,32,34,38,44,47,51	98	Positif
	Negatif	19,28,52	11	
15	Positif	1,7,18,23,41,51	31	Positif
	Negatif	13,39,46	13	
16	Positif	1,3,20,23,24,41	117	Positif
	Negatif	-	0	
17	Positif	1,3,5,7,8,11,12,16,18,20,22,23,24,26,30,32,34,38,40,41,44,47,49,51,54,55	472	Positif
	Negatif	2,4,6,9,10,13,14,15,17,19,21,25,27,28,29,31,33,35,36,37,39,42,43,45,46,48,52,53,56	276	
18	Positif	1,7,18,23,41,51	36	Positif
	Negatif	13,39,46,56	15	
19	Positif	1,3,5,7,8,11,12,16,18,20,22,23,24,26,30,32,34,38,40,41,44,47,49,51,54,55	110	Negatif

	Negatif	2,4,6,9,10,13,14,15,17,19,21,25,27,28,29,31,33,35,36,37,39,42,43,45,46,48,52,53,56	115	
20	Positif	1,3,5,11,16,18,20,22,23,30,32,41,44,49,51	72	Positif
	Negatif	2,13,15,19,21,29,31,33,37,39,43,46,52	28	
21	Positif	1,5,8,11,12,18,20,22,23,24,25,34,38,40,41,44,47,49,51	101	Positif
	Negatif	2,3,6,13,17,19,28,31,33,35,48,53	54	
22	Positif	1,3,5,7,8,16,18,20,23,24,30,32,34,38,40,44,47,51	198	Positif
	Negatif	2,4,6,10,13,15,17,19,21,25,29,31,33,35,39,43,45,46,52,53	85	
23	Positif	1,3,5,7,8,11,12,16,18,20,22,23,24,26,30,32,34,38,40,41,44,47,49,51,54,55	196	Positif
	Negatif	2,4,6,9,10,13,14,15,17,19,21,25,27,28,29,31,33,35,36,37,39,42,43,45,46,48,50,52,53,56	107	
24	Positif	1,5,7,18,23,24,30,41,49,51	88	Positif
	Negatif	2,4,6,9,17,28,33,35,43,46,48	51	
25	Positif	1,3,5,8,12,16,20,22,23,30,34,38,43,44,49,51,54	85	Negatif
	Negatif	2,4,13,21,31,33,37,39,42,45,46,48,52,53,56	88	
26	Positif	1,3,5,18,23,30,38,41,47	80	Positif
	Negatif	42	8	
27	Positif	1,3,5,16,18,23,24,32,44	36	Positif
	Negatif	6,33,39	8	
28	Positif	1,7,8,23,30,47,51	32	Negatif
	Negatif	4,29,31,33,35,37,39,43,48	36	
29	Positif	1,3,5,7,8,11,12,16,18,20,22,23,24,26,30,32,34,38,40,41,44,47,49,51,54	279	Positif
	Negatif	31,35	9	
30	Positif	1,3,5,8,12,16,20,22,23,30,34,38,44,49,51	87	Positif
	Negatif	2,4,13,21,31,33,37,39,52	40	
31	Positif	1,3,5,7,8,11,12,16,18,20,22,23,24,26,30,32,34,38,40,41,44,47,49,51,54,55	294	Positif
	Negatif	2,4,6,9,13,14,15,17,19,21,25,27,28,29,31,33,35,36,37,39,42,43,45,46,48,50,52,53,56	240	
32	Positif	1,5,18,20,23,32,34,41,44	40	Positif
	Negatif	2,4,6,24,39,43,46	34	
33	Positif	1,3,5,7,11,12,16,18,20,22,23,24,26,30,32,34,38,40,44,47,49,51,52,54,55	156	Positif
	Negatif	2,4,6,9,13,31,33,35,37,39,41,43,46,48	52	
34	Positif	1,5,12,13,16,18,23,24,30,41,47	47	Positif
	Negatif	37,39,46	11	
35	Positif	1,8,23,41,44	67	Positif
	Negatif	6,31,39,42	13	
36	Positif	1,3,5,7,8,11,12,14,16,18,20,22,23,24,26,30,34,38,40,44,47,49,51,52,54,55	142	Positif
	Negatif	2,9,13,28,31,33,35,36,37,39,41,43,46,48,53,56	41	
37	Positif	1,3,5,7,11,12,16,18,20,22,23,24,26,30,32,34,38,40,44,47,49,51,52,54,55	147	Positif
	Negatif	9,13,31,33,35,37,39,41,43,46,48	34	
38	Positif	1,3,5,16,18,23,24,32,44	38	Positif
	Negatif	6,33,39	9	
39	Positif	1,5,12,18,23,24,34,41,49,54	48	Positif
	Negatif	9,15	5	

40	Positif	1,7,8,11,23,30,47,51	35	Negatif
	Negatif	4,14,17,29,31,33,35,37,39,43,48	40	
41	Positif	1,7,8,11,23,30,41,44,47,51	51	Positif
	Negatif	2,4,6,14,17,29,31,33,35,37,39,43,48	43	



Lampiran 3 Hasil Uji *Post Hoc Test* LSD Model Campuran

(I) Model	(J) Model	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Merah_Lancip	Merah_Bulat	-.02439	.21806	.911	-.4529	.4041
	Merah_Campur	.12195	.21806	.576	-.3065	.5504
	Hijau_Lancip	-.14634	.21806	.502	-.5748	.2821
	Hijau_Bulat	-.07317	.21806	.737	-.5016	.3553
	Hijau_Campur	.00000	.21806	1.000	-.4285	.4285
	Biru_Lancip	-.17073	.21806	.434	-.5992	.2577
	Biru_Bulat	-.29268	.21806	.180	-.7212	.1358
	Biru_Campur	.00000	.21806	1.000	-.4285	.4285
	Kuning_Lancip	.63415*	.21806	.004	.2057	1.0626
	Kuning_Bulat	.56098*	.21806	.010	.1325	.9894
	Kuning_Campur	.58537*	.21806	.008	.1569	1.0138
	Merah_Bulat	Merah_Lancip	.02439	.21806	.911	-.4041
Merah_Campur		.14634	.21806	.502	-.2821	.5748
Hijau_Lancip		-.12195	.21806	.576	-.5504	.3065
Hijau_Bulat		-.04878	.21806	.823	-.4773	.3797
Hijau_Campur		.02439	.21806	.911	-.4041	.4529
Biru_Lancip		-.14634	.21806	.502	-.5748	.2821
Biru_Bulat		-.26829	.21806	.219	-.6968	.1602
Biru_Campur		.02439	.21806	.911	-.4041	.4529
Kuning_Lancip		.65854*	.21806	.003	.2301	1.0870
Kuning_Bulat		.58537*	.21806	.008	.1569	1.0138
Kuning_Campur		.60976*	.21806	.005	.1813	1.0382
Merah_Campur		Merah_Lancip	-.12195	.21806	.576	-.5504
	Merah_Bulat	-.14634	.21806	.502	-.5748	.2821
	Hijau_Lancip	-.26829	.21806	.219	-.6968	.1602
	Hijau_Bulat	-.19512	.21806	.371	-.6236	.2334
	Hijau_Campur	-.12195	.21806	.576	-.5504	.3065
	Biru_Lancip	-.29268	.21806	.180	-.7212	.1358
	Biru_Bulat	-.41463	.21806	.058	-.8431	.0138
	Biru_Campur	-.12195	.21806	.576	-.5504	.3065
	Kuning_Lancip	.51220*	.21806	.019	.0837	.9407
	Kuning_Bulat	.43902*	.21806	.045	.0106	.8675
	Kuning_Campur	.46341*	.21806	.034	.0349	.8919
	Hijau_Lancip	Merah_Lancip	.14634	.21806	.502	-.2821
Merah_Bulat		.12195	.21806	.576	-.3065	.5504
Merah_Campur		.26829	.21806	.219	-.1602	.6968
Hijau_Bulat		.07317	.21806	.737	-.3553	.5016
Hijau_Campur		.14634	.21806	.502	-.2821	.5748
Biru_Lancip		-.02439	.21806	.911	-.4529	.4041
Biru_Bulat		-.14634	.21806	.502	-.5748	.2821
Biru_Campur		.14634	.21806	.502	-.2821	.5748
Kuning_Lancip		.78049*	.21806	.000	.3520	1.2090
Kuning_Bulat		.70732*	.21806	.001	.2788	1.1358
Kuning_Campur		.73171*	.21806	.001	.3032	1.1602
Hijau_Bulat		Merah_Lancip	.07317	.21806	.737	-.3553
	Merah_Bulat	.04878	.21806	.823	-.3797	.4773

	Merah_Campur	.19512	.21806	.371	-.2334	.6236
	Hijau_Lancip	-.07317	.21806	.737	-.5016	.3553
	Hijau_Campur	.07317	.21806	.737	-.3553	.5016
	Biru_Lancip	-.09756	.21806	.655	-.5260	.3309
	Biru_Bulat	-.21951	.21806	.315	-.6480	.2090
	Biru_Campur	.07317	.21806	.737	-.3553	.5016
	Kuning_Lancip	.70732*	.21806	.001	.2788	1.1358
	Kuning_Bulat	.63415*	.21806	.004	.2057	1.0626
	Kuning_Campur	.65854*	.21806	.003	.2301	1.0870
Hijau_Campur	Merah_Lancip	.00000	.21806	1.000	-.4285	.4285
	Merah_Bulat	-.02439	.21806	.911	-.4529	.4041
	Merah_Campur	.12195	.21806	.576	-.3065	.5504
	Hijau_Lancip	-.14634	.21806	.502	-.5748	.2821
	Hijau_Bulat	-.07317	.21806	.737	-.5016	.3553
	Biru_Lancip	-.17073	.21806	.434	-.5992	.2577
	Biru_Bulat	-.29268	.21806	.180	-.7212	.1358
	Biru_Campur	.00000	.21806	1.000	-.4285	.4285
	Kuning_Lancip	.63415*	.21806	.004	.2057	1.0626
	Kuning_Bulat	.56098*	.21806	.010	.1325	.9894
	Kuning_Campur	.58537*	.21806	.008	.1569	1.0138
Biru_Lancip	Merah_Lancip	.17073	.21806	.434	-.2577	.5992
	Merah_Bulat	.14634	.21806	.502	-.2821	.5748
	Merah_Campur	.29268	.21806	.180	-.1358	.7212
	Hijau_Lancip	.02439	.21806	.911	-.4041	.4529
	Hijau_Bulat	.09756	.21806	.655	-.3309	.5260
	Hijau_Campur	.17073	.21806	.434	-.2577	.5992
	Biru_Bulat	-.12195	.21806	.576	-.5504	.3065
	Biru_Campur	.17073	.21806	.434	-.2577	.5992
	Kuning_Lancip	.80488*	.21806	.000	.3764	1.2334
	Kuning_Bulat	.73171*	.21806	.001	.3032	1.1602
	Kuning_Campur	.75610*	.21806	.001	.3276	1.1846
Biru_Bulat	Merah_Lancip	.29268	.21806	.180	-.1358	.7212
	Merah_Bulat	.26829	.21806	.219	-.1602	.6968
	Merah_Campur	.41463	.21806	.058	-.0138	.8431
	Hijau_Lancip	.14634	.21806	.502	-.2821	.5748
	Hijau_Bulat	.21951	.21806	.315	-.2090	.6480
	Hijau_Campur	.29268	.21806	.180	-.1358	.7212
	Biru_Lancip	.12195	.21806	.576	-.3065	.5504
	Biru_Campur	.29268	.21806	.180	-.1358	.7212
	Kuning_Lancip	.92683*	.21806	.000	.4984	1.3553
	Kuning_Bulat	.85366*	.21806	.000	.4252	1.2821
	Kuning_Campur	.87805*	.21806	.000	.4496	1.3065
Biru_Campur	Merah_Lancip	.00000	.21806	1.000	-.4285	.4285
	Merah_Bulat	-.02439	.21806	.911	-.4529	.4041
	Merah_Campur	.12195	.21806	.576	-.3065	.5504
	Hijau_Lancip	-.14634	.21806	.502	-.5748	.2821
	Hijau_Bulat	-.07317	.21806	.737	-.5016	.3553
	Hijau_Campur	.00000	.21806	1.000	-.4285	.4285
	Biru_Lancip	-.17073	.21806	.434	-.5992	.2577
	Biru_Bulat	-.29268	.21806	.180	-.7212	.1358
	Kuning_Lancip	.63415*	.21806	.004	.2057	1.0626
	Kuning_Bulat	.56098*	.21806	.010	.1325	.9894

	Kuning_Campur	.58537*	.21806	.008	.1569	1.0138	
Kuning_Lancip	Merah_Lancip	-.63415*	.21806	.004	-1.0626	-.2057	
	Merah_Bulat	-.65854*	.21806	.003	-1.0870	-.2301	
	Merah_Campur	-.51220*	.21806	.019	-.9407	-.0837	
	Hijau_Lancip	-.78049*	.21806	.000	-1.2090	-.3520	
	Hijau_Bulat	-.70732*	.21806	.001	-1.1358	-.2788	
	Hijau_Campur	-.63415*	.21806	.004	-1.0626	-.2057	
	Biru_Lancip	-.80488*	.21806	.000	-1.2334	-.3764	
	Biru_Bulat	-.92683*	.21806	.000	-1.3553	-.4984	
	Biru_Campur	-.63415*	.21806	.004	-1.0626	-.2057	
	Kuning_Bulat	-.07317	.21806	.737	-.5016	.3553	
	Kuning_Campur	-.04878	.21806	.823	-.4773	.3797	
	Kuning_Bulat	Merah_Lancip	-.56098*	.21806	.010	-.9894	-.1325
		Merah_Bulat	-.58537*	.21806	.008	-1.0138	-.1569
Merah_Campur		-.43902*	.21806	.045	-.8675	-.0106	
Hijau_Lancip		-.70732*	.21806	.001	-1.1358	-.2788	
Hijau_Bulat		-.63415*	.21806	.004	-1.0626	-.2057	
Hijau_Campur		-.56098*	.21806	.010	-.9894	-.1325	
Biru_Lancip		-.73171*	.21806	.001	-1.1602	-.3032	
Biru_Bulat		-.85366*	.21806	.000	-1.2821	-.4252	
Biru_Campur		-.56098*	.21806	.010	-.9894	-.1325	
Kuning_Lancip		.07317	.21806	.737	-.3553	.5016	
Kuning_Campur		.02439	.21806	.911	-.4041	.4529	
Kuning_Campur		Merah_Lancip	-.58537*	.21806	.008	-1.0138	-.1569
		Merah_Bulat	-.60976*	.21806	.005	-1.0382	-.1813
	Merah_Campur	-.46341*	.21806	.034	-.8919	-.0349	
	Hijau_Lancip	-.73171*	.21806	.001	-1.1602	-.3032	
	Hijau_Bulat	-.65854*	.21806	.003	-1.0870	-.2301	
	Hijau_Campur	-.58537*	.21806	.008	-1.0138	-.1569	
	Biru_Lancip	-.75610*	.21806	.001	-1.1846	-.3276	
	Biru_Bulat	-.87805*	.21806	.000	-1.3065	-.4496	
	Biru_Campur	-.58537*	.21806	.008	-1.0138	-.1569	
	Kuning_Lancip	.04878	.21806	.823	-.3797	.4773	
	Kuning_Bulat	-.02439	.21806	.911	-.4529	.4041	

*. The mean difference is significant at the 0.05 level.